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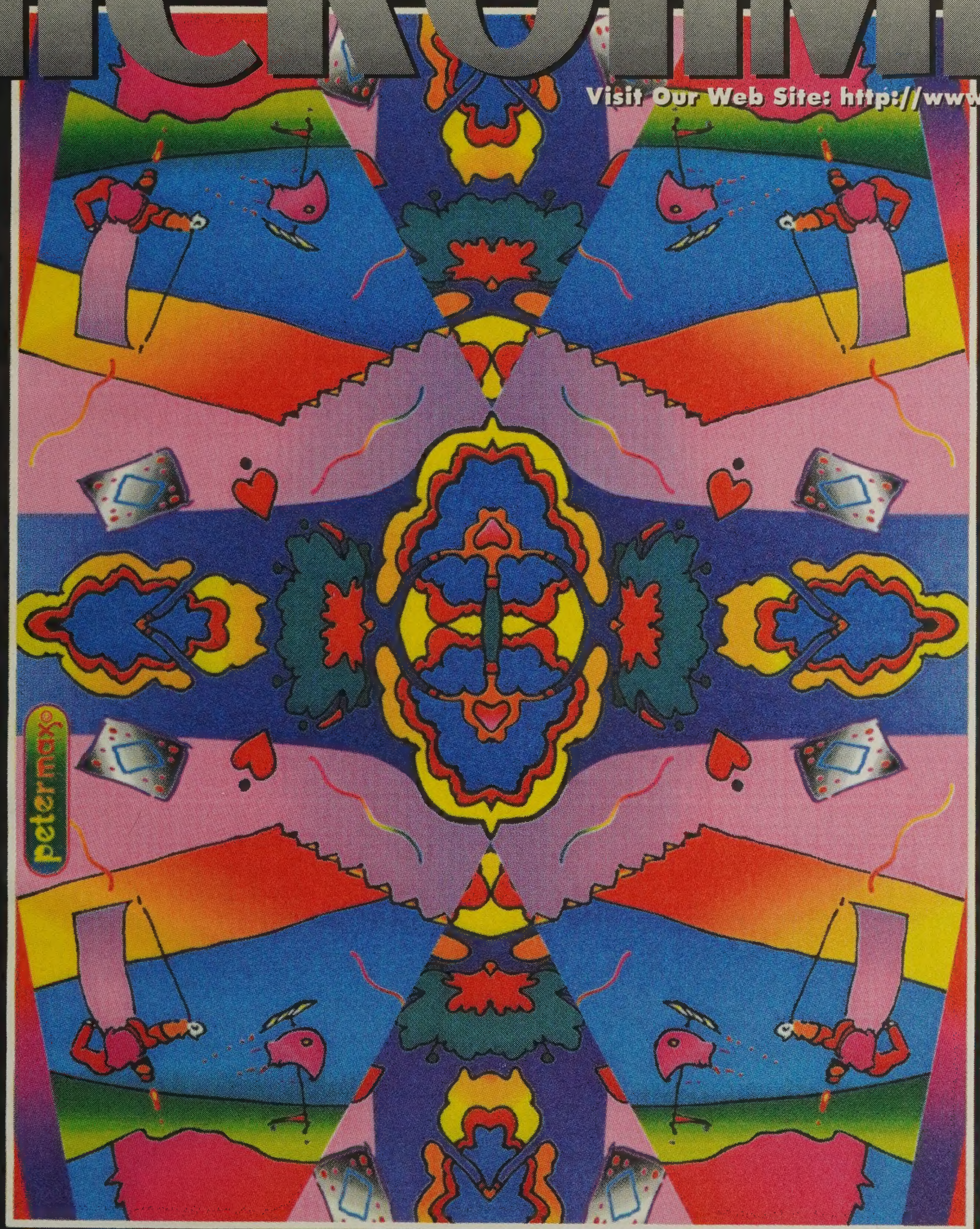

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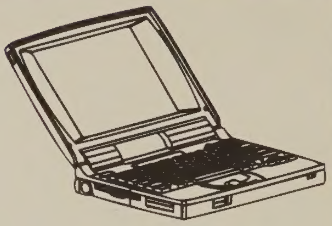

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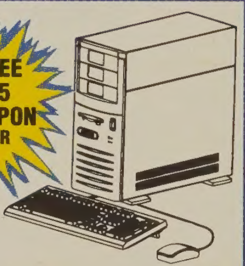

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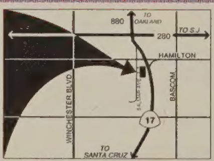
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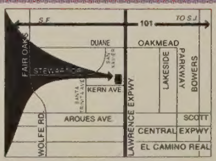
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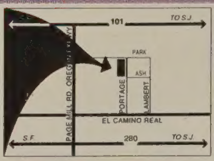
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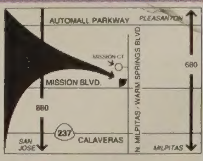
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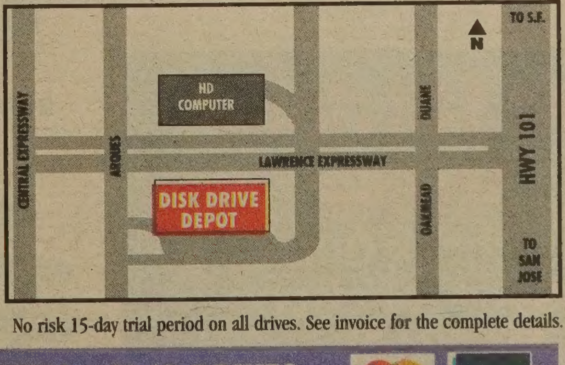

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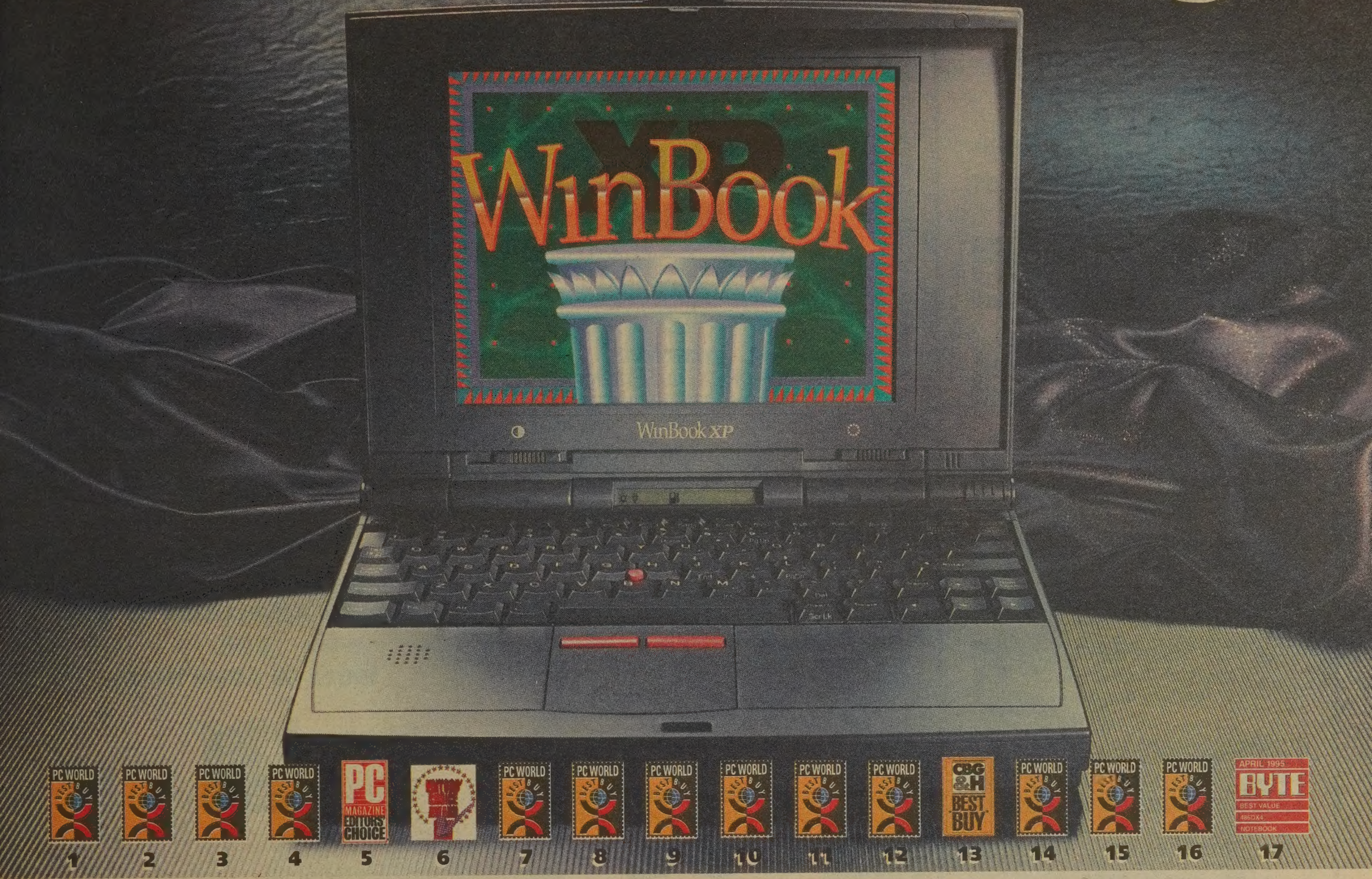

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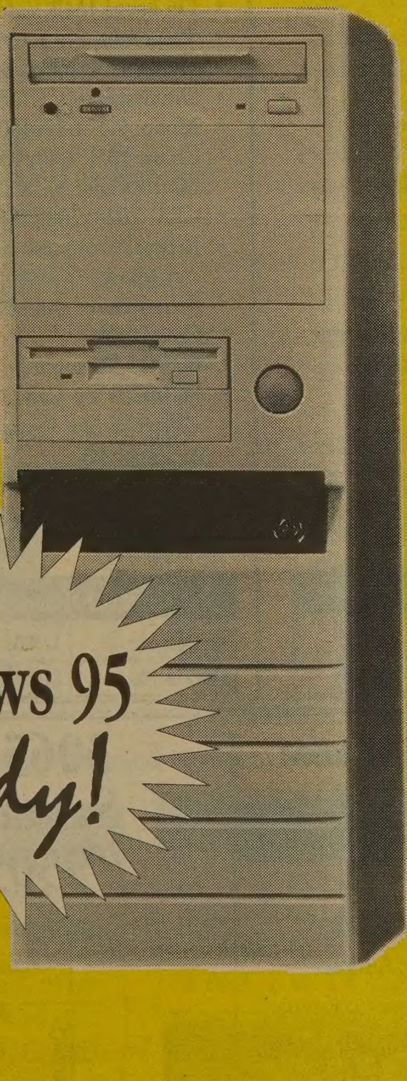

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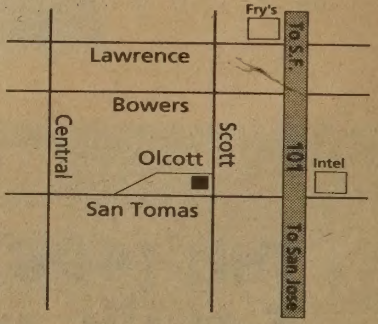

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Contributors
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Robert Moskowitz (*RMoskowitz@aol.com*) is a consultant based in Woodland Hills.

Smoot Carl-Mitchell (*smoot@tic.com*) is the managing partner of TIC (Texas Internet Consulting) and president of MIDS (Matrix Information Directory Services).

Jennifer R. Cherniss specializes in making boring technical information seem less so. You may complain to her at (415)995-7134.

John C. Dvorak writes many columns, hosts the radio show *Software/Hardtalk*, and has interesting ways of dealing with writer's block.

Cynthia Dyer-Bennet is a recent graduate of Santa Rosa Junior College, where she was a forty-year-old reentry student. While there, she was editor-in-chief of *The Oak Leaf*. She can be reached at *cdyerben@crl.com* .

Jonathan E. has worked with desktop multimedia since 1988. His USPS mailing address is c/o SoundSwell, 54 29th St., Richmond, CA 94804. His email address is *jeve@well.sf.ca.us* .

Bill Gram-Reefer, based in Concord, CA, is president of WORLDVIEW, specializing in connectivity and communications. He has been writing about Macintosh computers since 1984.

Bennett Falk is the author of *The Internet Roadmap*, now in its second edition. By day, he works at Sybase in Emeryville.

Ed Kahn (*edkahn@well.com*) is a folklorist who maintains a strong interest in computers and lives in the East Bay.

Paul Hoffman is an independent consultant who's been writing about computers for over fifteen years.

John S. Quarterman (*jsq@tic.com*) is the senior technical partner of TIC (Texas Internet Consulting) and editor of *Matrix News*. He is a longtime observer, consultant, and writer on the matrix of electronic networks.

Douglas J. Nakakihara *(djn@ix.netcom.com)* is a full-time CPA and owner of Electrical Language, a computer videographics company based in Simi Valley, CA.

Fabian Pascal is a San Francisco independent industry analyst and consultant specializing in database technology, OS/2, and office and portable computing. Author of *SQL and Relational Basics* (M&T Books, 1990) and *Understanding Relational Databases* (John Wiley, 1993), he teaches seminars and has published extensively in most industry publications. He can be reached on CompuServe (73677,3306) or at (415)776-5184.

Tony Reveaux, a San Francisco-based consultant, writes the "MediaScan" column in *Film/TapeWorld*, and is the West Coast correspondent for *Computer Video*. He can be reached at (415)648-5958 or *TonyR10862@aol.com* .

David Morgenstern works at *MacWEEK* and volunteers at BMUG.

David A. Simon, CPA (M.A., Taxation) is in tax and accounting practice in Oakland, and is coauthor of *Business Contracts: Forms and Tax Analysis* (Wiley Law Publications). His clients include professionals and businesses throughout the state. He can be reached at (510)893-5753.

Birrell Walsh (*birrell@well.sf.ca.us*) is a contributing editor for *MicroTimes* and a freelance writer for *BYTE* and other magazines.

Jim Warren has received the Hugh M. Hefner First Amendment Award (1994), the James Madison Freedom-of-Information Award from the Society of Professional Journalists—Northern California (1994), and the Electronic Frontier Foundation Pioneer Award (1992, its first year). He led the successful 1993 effort to make state legislation and statutes available via the public nets without state fees.

He organized and chaired the landmark First Conference on Computers, Freedom & Privacy (1991), founded *InfoWorld*, was founding host of PBS's *Computer Chronicles* and founding editor of *Dr. Dobb's Journal*, and has chaired various computer and mathematics organizations. He holds graduate degrees in computing (Stanford), medical information science (UC Medical Center), and mathematics and statistics. He began working as a programmer in 1968, and was a mathematics teacher and professor for ten years before that.

Woody Liswood (*woody@well.com*) recently relocated from Colorado to Tahoe, where he's continuing his consulting and writing activities and familiarizing himself with Win 95.

Edwin Rutsch has written several books on how to buy and maintain computers. He is an independent consultant; his company, Network Magicians, specializes in installing computer networks. He is also one of the coordinators of the San Francisco PC User Group's, Networking Windows SIG and can be reached at (510)528-9895.

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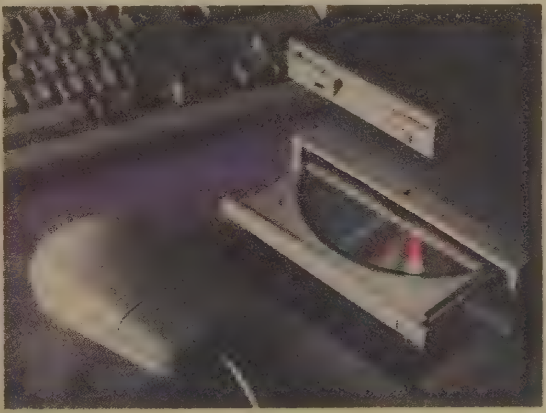

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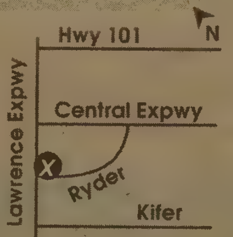

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Dennis Erokan

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Chuck Stanley

EDITORIAL 510-934-3700
email: Microx@well.sf.ca.us
EDITOR Mary Eisenhart
ASSOCIATE EDITOR Michael Robin
NEWS EDITOR Paul Hoffman
ART DIRECTOR Monika Lukenbill
EDITORIAL DESIGNER Rick Colby
EDITORIAL ASSISTANT John Downen
CONTRIBUTING EDITORS Lenny Bailes, John Perry Barlow, Smoot Carl-Mitchell, Jennifer Robin Cherniss, John C. Dvorak, Jonathan E., Bennett Falk, Mitsu Hadeishi, Peter John Harrison, Ed Kahn, Matthew Leeds, David Morgenstern, Robert Moskowitz, Douglas J. Nakakihara, Fabian Pascal, John S. Quarterman, Tony Reveaux, David A. Simon, CPA, Birrell Walsh, Jim Warren, John Wolcott
CONTRIBUTING WRITERS Cynthia Dyer-Bennett, Bill Gram-Reefer, Woody Liswood, Judy Malloy, Pamela Mason, Kevin Savetz
CONTRIBUTING PHOTOGRAPHERS Michael Jay, Anne Knudsen, Susana Millman, Paul Winternitz

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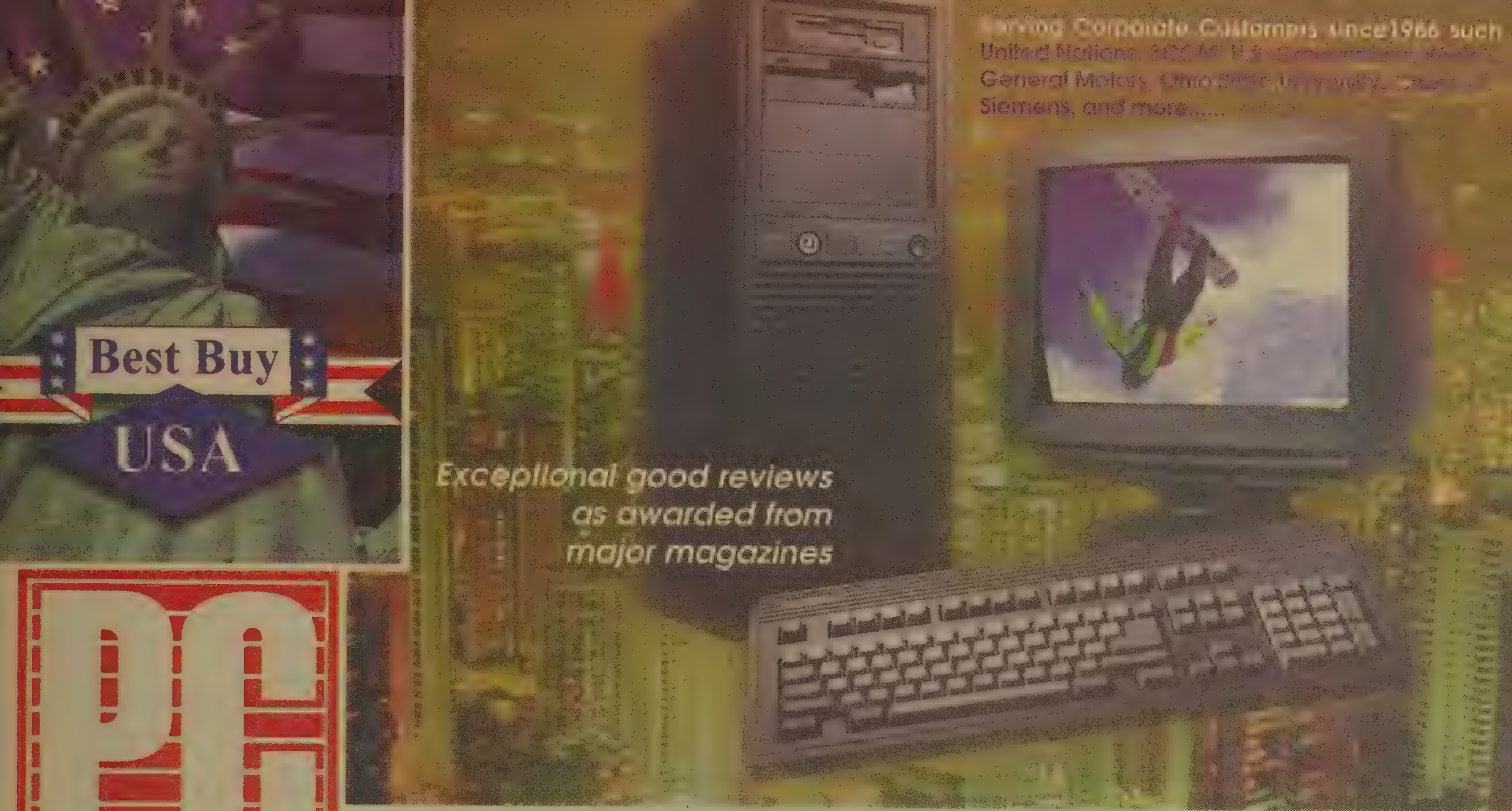
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News and Views

BY PAUL HOFFMAN

Industry Insights

Prices Are Going Down, But Prices Are Going Up
Moore's Law Isn't What It Used To Be

It's not an easy time to be shopping for a PC right now. The market is not moving in the direction you might've become used to, namely that prices go down and speed goes up. Over the past six months or so, the price of a PC has dropped while its speed increased a bit, but the real cost of a PC has remained level or gone up due to increased RAM needs and software prices.

It might seem odd that software can affect hardware prices, but the recent release of Windows 95 will probably make PCs more expensive in the short run. Although Microsoft insists that Windows 95 will run in 4MB of RAM, they're not really being honest. What they mean is that Windows 3.1 programs running under Windows 95 will probably do as well on a PC with 4MB of RAM as they did before. However, almost nothing else will.

The recent release of Windows 95 will probably make PCs more expensive in the short run.

New programs specifically written for Windows 95 (the real reason that you buy or upgrade to the operating system) will need more than 4MB of RAM. Thus, your $100 purchase of a Windows 95 upgrade might have to be coordinated with a $150 or $200 purchase of another 4MB of RAM. Fortunately, the operating system part of Windows 95 running on a system with lots of RAM doesn't run any slower than Windows 3.1, so you don't need to also buy a faster CPU.

Intel has been quite good about dropping the price of all of its CPUs over the past months, and will probably continue to do so for the foreseeable future. The CPU giant is simultaneously trying to make room for the still-unnamed P6 line, and tries to put its competitors like AMD and Cyrix out of business by forcing them to lower their prices below their profit point. PC buyers clearly gain from these price drops.

Keeping Up With The Operating System

However, at the same time, the need for faster CPUs (as compared to the normal desire) is still going up. When running real Windows 95 applications, a computer is actually doing much more than it did under Windows 3.1, and thus needs a faster CPU in order to keep up. Unfortunately, it also needs more RAM, mostly due to the multithreading features that Microsoft has built into Windows 95.

For years, software makers have been asking for multithreading. In short, it allows them to write software that does many things at the same time and does them in a way that lets the operating system figure out which is most important. It has many ideas in common with multitasking, and in fact does almost the same thing in Windows 95. If multithreading works the way it is supposed to, programs that use multithreading can share the use of the hard disk and CPU better and more efficiently.

Unfortunately, multithreading doesn't always work the way it is supposed to. On a slower CPU, a multithreading operating system runs much slower than a nonthreaded operating system because it has more to keep track of. If the operating system doesn't have enough RAM, the more threads a program creates, the more likely it is to need to use the hard disk, thereby slowing everything down incredibly. If you have a slower hard disk (such as on an older PC or on a portable), the slowdown will be incredibly obvious.

The solution to the problem is easy, but not cheap: Add more RAM. Although a faster CPU can help here, a few hundred dollars' worth of RAM will help much more.

The problems in threading were brought to light by none other than Microsoft itself about six months ago. The first version of the Microsoft Network program that comes with Windows 95 was fully threaded, just the way it was supposed to be. However, there were a huge number of complaints, even from people with PCs that had 8MB of RAM, that it ran too slowly and it caused their hard disks to thrash. Microsoft agreed, and took much of the multithreading out of the program so that it ran better.

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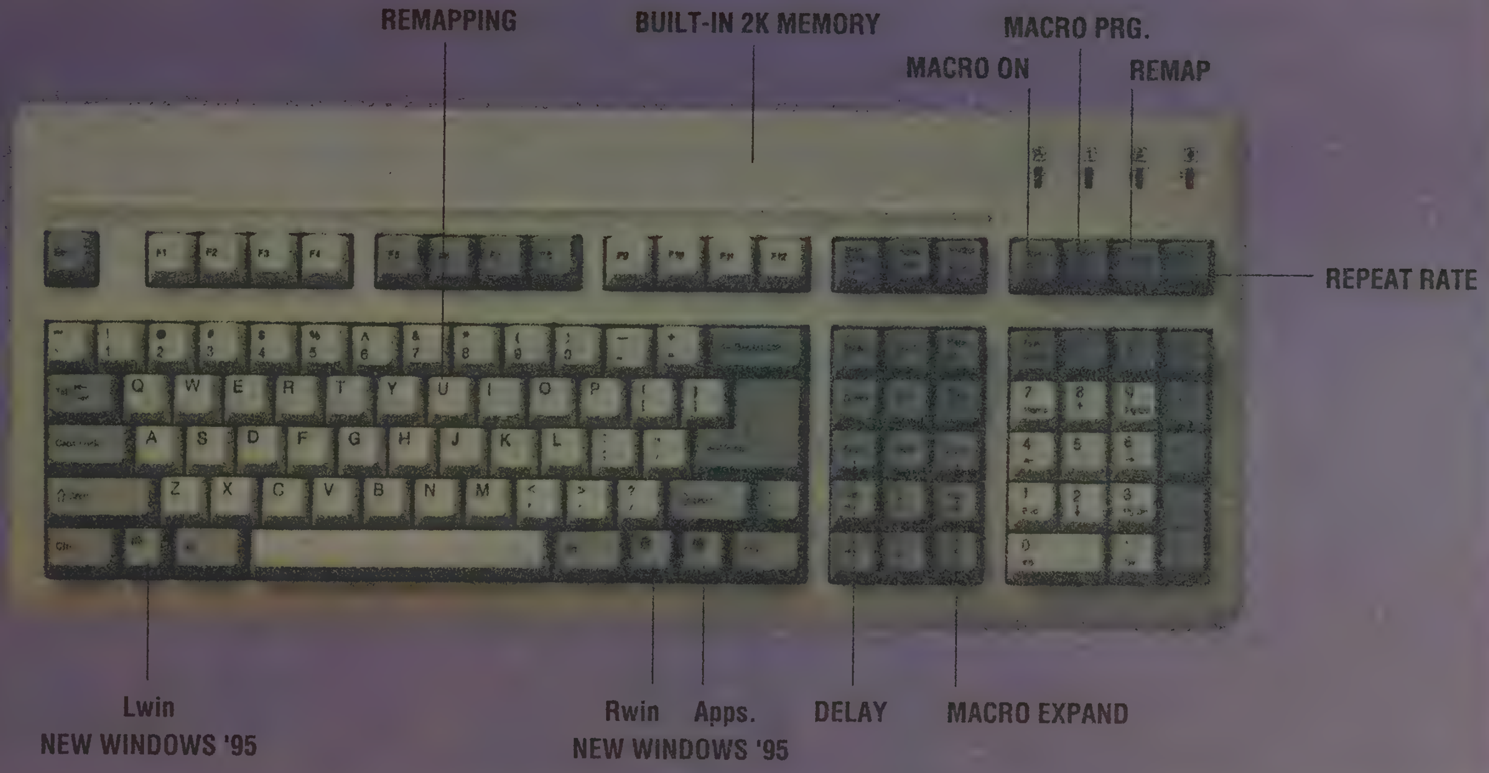
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folks to get a full 8MB system. Recent versions of office applications have been requiring more RAM just to run. It is widely expected that by the end of this year, when most of the upgrades to Windows 95 for major applications have been released, that a typical user will need at least 2MB–4MB more for the applications than they did under Windows 3.1.

Worse yet, the cost of software has been going up for current PC users because the cost of the many upgrades each program goes through has been going up. Whereas upgrades five years ago might have been only $50 or so, many upgrades recently have been pushing $100 and more. At the same time, many people complain that they don't need or want the features being added in the new software.

Why upgrade your software then, if it costs too much and it takes more RAM? Because most software vendors stop supporting "old" software about six months after a new version comes out. Or, they will answer questions about the old software but not even try to help you if you believe you have found bugs. Thus, if you're using any software in your day-to-day work that you must have support for, you must upgrade regardless of the cost.

The third part of the triple-whammy is that now software technical support usually costs money after the first ninety days of ownership. In the past, the cost of support was built into the cost of the software; now support is an option, one which can easily cost $50 per year per package.

Why Won't RAM Prices Drop?

The problem with having to buy more RAM wouldn't be so bad if the price of RAM dropped as quickly as the price of CPUs or hard disks. However, RAM prices have remained constant for a few years now, much to the consternation of people buying computers (and, to a certain extent, the people writing software that needs more and more RAM). Two factors have contributed to the stable prices:

•The demand for RAM has gone way up. Not only are more computers being sold, they are being sold with more RAM in them. A few years ago, you could find new systems from major manufacturers with 2MB in them; now 4MB is the minimum, and 8MB is becoming the standard for many Pentium-based systems.

•Manufacturing of RAM has barely kept up with the demand. Pretty much every RAM chip that is made is spoken for before it comes off the assembly line. A few years ago, there were RAM merchants who would buy and sell spare inventory; they are few and far between these days, given how little spare inventory there is.

In some senses, we can be thankful that RAM prices have not gone up due to these factors. It is only the fact that more RAM manufacturing plants keep opening up that keeps the RAM prices from jumping. That somewhat delicate balance may not last for long, however.

Although the market for RAM in new systems is clearly bigger than that for upgrades, the upgrades market will soon become very important, given expectations of the number of people who will upgrade to Windows 95 over the

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	17SF	17" .28 1280x1024	$859
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	XP17	17"	$1229
	XV17	17"	$759
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	Elite Ultra 16TP/Coax	$97
Cheyenne		
	ARCserve/FAXserve	Call

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	Sound Blaster AWE32 Value	$189
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NEC	CDR-511 Quad CD-ROM	$229
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Panasonic	Quad CD-ROM IDE	$179
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Plextor	Six Speed CD-ROM SCSI	$449
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	Quad IDE CD-ROM 3601	$299
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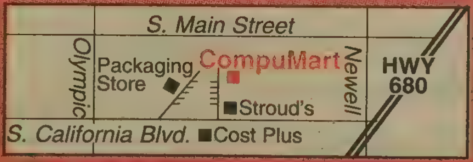

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	LaserJet 4L/5P/4+	CALL
	LaserJet 4V	CALL
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	KX-SP100 Fax/Prt/Copier	$769
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Epson	Action Laser 1100	$389
	Stylus Color Inkjet	$525
Fargo	Color Printer	$739

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95 Office Upgrade	$232
95 Office Pro Upgrade	$342
Windows 95 Plus	$44
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Practical P	14.4 Fax/Modem Int/Ext	$85/$114
	28.8 Fax/Modem Int/Ext	$189/$209
US Robotics	14.4 Fax/Modem Int/Ext	$69/$89
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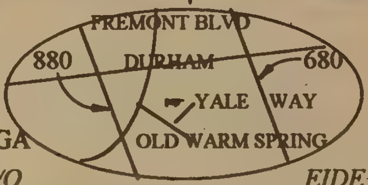

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Insights *continued...*

next year or two. The RAM merchants who sell to the upgrade market may soon find it harder to buy RAM, and thus raise their prices to help cover their scurrying around. Large PC manufacturers have more stable sources for RAM, but mid- and small-size PC makers don't, and often end up competing with RAM merchants for small orders of one hundred to one thousand SIMMs.

Avoiding Doom And Gloom

The combination of software and RAM prices may contribute to fewer people upgrading to Windows 95. Heck, there are still many people who have yet to upgrade from MS-DOS to Windows because their word processor, the only program they use, still works fine on their PC that has a 386 and 1MB of RAM.

> Although much of the decision not to update to Windows 95 comes from inertia, add a $500 software and RAM bill, and you may find people somewhat happily running Windows 3.1 in 1998.

Although much of the decision not to update to Windows 95 comes from inertia, add a $500 software and RAM bill, and you may find people somewhat happily running Windows 3.1 in 1998.

Software manufacturers may have a rude shock next year if their predictions about upgrading to Windows 95 are too high. There could be a real demand for support for Windows 3.1, even to the point where the vendors have to come out with new versions that work on Windows 3.1 as well as they do on Windows 95. One scenario that's not all that far-fetched is that a couple of smaller companies that actively support their Windows 3.1 products start to see their sales go up due to sales in the Windows 3.1 market, as long as their programs also work well on Windows 95.

Microsoft made it somewhat easy to be sure that a reasonably written Windows 3.1 program won't crash under Windows 95. Unfortunately, many current programs do crash badly under Windows 95, including current or recent versions of programs from major companies like Lotus, Corel, and Borland.

It is likely that those bugs in Windows 95 will get fixed by the software makers, not Microsoft, in very short order; some might even be given away free to users. More likely, the bug fixes will get rolled into planned upgrades that will not be free, and may cost a significant amount of money. ■

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Stock Chart continued on page 20

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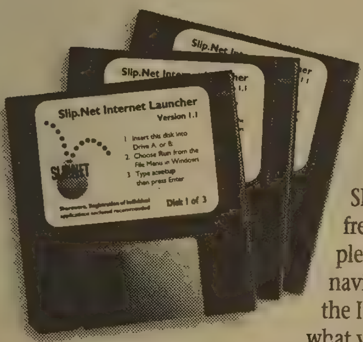

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MicroTimes Stock Index Takes Another Step Forward

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	SOFTWARE										
OTC	Adobe	ADBE	58.63	49.50	-9.13	-15.57	90	0.20	0.40	66.50	27.25
OTC	Autodesk (H)	ACAD	46.25	45.75	-0.50	-1.08	31	0.24	0.52	53.00	28.75
OTC	Borland (H)	BORL	11.81	14.25	2.44	20.63		0.00	0.00	15.25	6.00
OTC	Informix	IFMX	28.50	27.38	-1.13	-3.95	46	0.00	0.00	32.38	10.50
OTC	Microsoft	MSFT	89.00	93.25	4.25	4.78	40	0.00	0.00	109.25	53.88
OTC	Novell	NOVL	17.50	18.25	0.75	4.29	23	0.00	0.00	23.25	14.13
OTC	Oracle (H)	ORCL	39.63	39.88	0.25	0.63	40	0.00	0.00	44.38	24.75
OTC	Software Publishing	SPCO	3.50	4.63	1.13	32.14	58	0.00	0.00	6.25	2.88
OTC	Symantec (H)	SYMC	26.63	28.00	1.38	5.16	27	0.00	0.00	32.38	11.63
	HARDWARE										
OTC	Apple	AAPL	44.38	43.38	-1.00	-2.25	11	0.48	1.11	50.13	32.50
OTC	AST Research	ASTA	15.00	13.50	-1.50	-10.00		0.00	0.00	19.25	10.38
NYS	Compaq (H)	CPQ	49.38	47.25	-2.13	-4.30	14	0.00	0.00	54.75	30.75
NYS	Digital Equipment	DEC	43.13	40.88	-2.25	-5.22	273	0.00	0.00	49.50	23.50
OTC	Dell (H)	DELL	63.25	76.13	12.88	20.36	16	0.00	0.00	77.38	30.75
NYS	Hewlett-Packard (H)	HWP	72.50	78.13	5.63	7.76	18	0.80	1.02	85.38	41.75
NYS	IBM (H)	IBM	107.50	101.63	-5.88	-5.47	12	1.00	0.98	114.63	66.63
NYS	Silicon Graphics	SGI	39.00	42.25	3.25	8.33	33	0.00	0.00	45.63	23.38
OTC	Sun Microsystems (H)	SUNW	45.38	55.38	10.00	22.04	15	0.00	0.00	62.00	25.38
NYS	Xerox (H)	XRX	117.00	120.25	3.25	2.78	16	3.00	2.49	128.38	90.63
NYS	Tandy (H)	TAN	59.13	63.13	4.00	6.77	21	0.72	1.14	63.38	39.50
	CPU'S										
NYS	Advanced Micro Devices	AMD	31.00	33.38	2.38	7.66	11	0.00	0.00	39.25	22.25
OTC	Intel	INTC	61.50	60.38	-1.13	-1.83	19	0.16	0.27	78.38	28.75
NYS	LSI Logic (H)	LSI	42.38	49.25	6.88	16.22	35	0.00	0.00	53.00	14.75
NYS	Motorola	MOT	73.88	72.75	-1.13	-1.52	25	0.40	0.55	80.13	49.00
	COMMUNICATIONS										
NYS	AT&T	T	52.63	56.63	4.00	7.60	18	1.32	2.33	59.00	47.25
NYS	BellSouth Corp. (H)	BLS	67.88	68.00	0.13	0.18	16	2.76	4.06	69.00	50.50
OTC	MCI	MCIC	24.00	23.88	-0.13	-0.52	18	0.05	0.21	25.88	17.25
NYS	Northern Telecom	NT	37.63	36.38	-1.25	-3.32	22	0.44	1.21	41.00	31.25
NYS	Pacific Telesis	PAC	28.63	28.13	-0.50	-1.75	11	2.18	7.75	33.25	25.63

Note: Lotus was acquired and removed from our list.

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES	16
DECLINES	13
UNCHANGED	0
NEW HIGHS	13
NEW LOWS	0

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER	Sun Microsystems	$	12.88
LARGEST DOLLAR LOSER	IBM	$	-9.13
LARGEST PERCENTAGE GAINER	Borland		32.14 %
LARGEST PERCENTAGE LOSER	AST Research		-15.57 %

	CLOSE 08/02/95	CLOSE 08/30/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	7501.51	7787.50	285.99	3.81
DOW JONES INDUSTRIAL AVERAGE	4665.85	4604.57	-61.28	-1.31
STANDARD & POOR'S 500 INDEX	558.80	560.92	2.12	0.38
N.Y.S.E. COMPOSITE	298.95	301.40	2.45	0.82
NASDAQ COMPOSITE	978.76	1012.61	33.85	3.46

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
02/16/95	5961.54	3987.52
03/15/95	6042.96	4038.37
04/12/95	6270.71	4197.81
05/10/95	6571.21	4404.62
06/07/95	6982.06	4462.03
07/05/95	7437.77	4615.23
08/02/95	7501.51	4665.85
08/30/95	7787.50	4604.57

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Technology stocks continued their upward trajectory for the month of August. Specifically, the MicroTimes Stock Index jumped 285.99 points, or 3.81%, to close at yet another record high of 7787.50. In similar fashion, the S&P Index rose 2.12 points, or .38%, to close at 560.92. In stark contrast, the Dow Jones Industrial Average slid 61.28 points, or 1.31%, to 4604.57.

In our index, advancing issues edged out declining issues by a sixteen-to-thirteen count, and there were thirteen new 52-week highs vs. zero new 52-week lows.

Turning To The Stocks In The MicroTimes Index:

Microsoft Corp.'s new operating system, Windows 95, went on sale at midnight August 24, worldwide, marking the beginning of an expected surge in sales of software, personal computers, and related equipment. Windows 95 is expected to sell seven to nine million copies in the first seven days according to market researcher Dataquest, Inc. Microsoft Corp. was up 4.25 points, or 4.78%, to close at $93.25.

Dell Computer Corp. reported fiscal second-quarter net income of $65.1 million, or $1.32 a share, compared with $28.6 million, or $.65 a share in the year-ago quarter. The company attributed the strong earnings to increased sales to corporate and government customers, aided by a quick shift to Intel Corp.'s Pentium microprocessor. Shares for Dell rose 12.88 points, or 20.36%, to close at $76.13.

Sun Microsystems Inc.'s role in the operations of the Internet was highlighted by a recent announcement of plans to develop an electronic check-payment system for use over the global computer network. Last month, Sun Microsystems Inc. gained ten points, or 22.04%, to close at $55.38.

AT&T Corp. said it will ask federal regulators to block Sprint Corp.'s proposed alliance with the French and German phone monopolies until the two European markets are opened to competition. Victor Pelson, a global operations executive with AT&T, said, "We believe the price of entry has to be the reality of competition, not just the promise of it." Shares of AT&T Corp. rose four points, or 7.60%, to close at $53.63.

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REALIZABLE FANTASIES • BY JIM WARREN

Tools For Grassroots Political Action

The Net Levels The Playing Field

This details how individual citizens and fellow nerds can implement powerful computer-based grassroots political-action tools. With little effort. For public use. *Now!*

(An unrelated rant at the end screeches about Wells Fargo's infuriating illustration of how *NOT* to automate customer "service.")

Freedom's Prerequisites

There are two prerequisites for a free people:

1. Citizens must have timely access to adequate information on which to base sound decisions about their own governance.
2. The body politic must be functionally able to communicate with itself.

The public computer nets greatly facilitate freedom's first requirement—to the extent that government permits its information to be available electronically at little or no cost (for use by nonprofiting concerned citizens who've already paid via taxes for the information's collection and computerization).

But the nets have limited value for the communication prerequisite—since "only" twenty to forty million are on the net, globally (about two-thirds of 'em from the US, 260 million, with about 12% of those being in California).

For communication, the real value of the net is to aid in facilitating and coordinating outreach, by those who are on the net to the remaining 80–90% of the electorate who are not yet connected.

With few exceptions in this century, the only possibility for effective state or national political action belonged to those who could afford top-down professional political organizations and massive direct-mail campaigns—supplemented by huge media campaigns.

The nets are changing that!—and need one more crucial information component to *massively* empower bottom-up, citizen-based, grassroots action.

Communicating With The Body Politic

Apologies for stating the obvious, but in order to communicate with the body politic—the electorate—one must be able to identify its members and how to contact them.

This information is in the voter registration files that are readily accessible to and massively utilized by every professional political operation.

The only campaigns that have any hope of success use voter reg data for absolutely essential outreach and advocacy—primarily via direct mail, phone calls, and precinct walkers, plus get-out-the-vote work on election day.

Voter Privacy Vs. Voter Access

Citizens do *not* register to vote in order to stand in lines, pull levers, or punch holes in cards. We register in hopes of imposing our will upon our entire community—local, state, or national.

We register in order to participate in the political process—and a crucial part of the political process is dialogue and advocacy—inconvenient and irritating though some of it is.

Although political decision-makers would often *prefer* to be secret and unreachable, a free society cannot exist where its decision-makers are hidden. And voters are this nation's most powerful decision-makers.

And most certainly, those who are already in power, who already have the names and addresses of voters and already have ample access to media and funding, and those political machines that create "graveyard voters," would *love* to prohibit "outsiders" from having any useful access to voters' names and addresses.

For these reasons, *voters' names and addresses should not be secret.*

To the extent that we can implement free and low-cost *grassroots communications and* coordination *alternatives—that prove effective at the ballot box—*money *will become less important in* political decisions.

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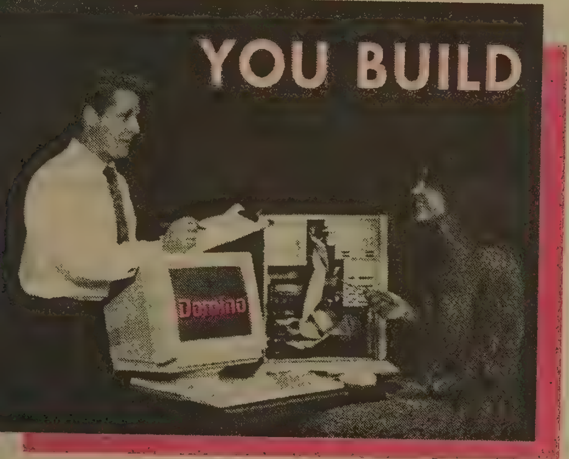

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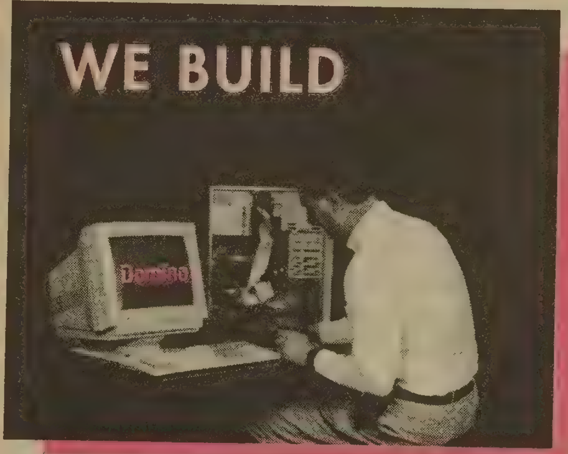

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Realizable Fantasies *continued...*

Grassroots Access To The Body Politic

Voter registration data is computerized—names, mailing addresses, voting jurisdictions, and party affiliation (needed until we have open primaries where voters can vote for *any* candidate in a primary, rather than being limited only to those in their own party). Voter files also usually include records of last voting dates—needed to purge voter rolls of long-vacant un-voters.

By law, and as a crucial component of freedom, that information is available to anyone wishing to independently verify the accuracy of voter registrations, or, more often, wishing to utilize it for legitimate political advocacy.

And by law in many states including California, voter registration information is prohibited from use for nonpolitical purposes (except by law enforcement, jury administrators, welfare workers, and numerous other government uses, completely unrelated to the political process, and certainly not why citizens register!).

Political advocacy—regarding legislation or elections—requires access to this information.

Effective advocacy requires access in computerized form.

Implementing Access: 58 Citizens Needed

Effective participation in the political process should not continue to be limited to professional political hacks and big-bucks lobbyists. You, personally, can change it!

If you provide reasonable evidence that access is for authorized purposes, you can review voter reg files in the office of your county's Registrar of Voters, and you can obtain an electronic copy of part or all of them—usually on 9-track magtape and increasingly on PC or Mac diskettes—upon request and payment of usually nominal fees (that are *supposed* to be no more than the actual incremental cost of creating the copy).

Contact your county's Registrar of Voters (there are 58 counties in California). Urge the Registrar to make the voter files available online. If (s)he refuses (most will), obtain an electronic copy of them for use in political advocacy.

Make them available online for legitimate citizen activism, with protections against abuse (details in next column). If you don't know how, contact me online (email to *jwarren@well.com*) and I'll help.

As this crucial support data for freedom becomes available, I will distribute details in my free online "GovAccess" notices, for activists and concerned citizens.

We need these records to be available, online, without cost—and with at least the level of protection against improper use as is implemented in Registrars' offices.

Implementing Effective Grassroots Activism

Once the voter reg files are available, activists and grassroots organizations—especially those

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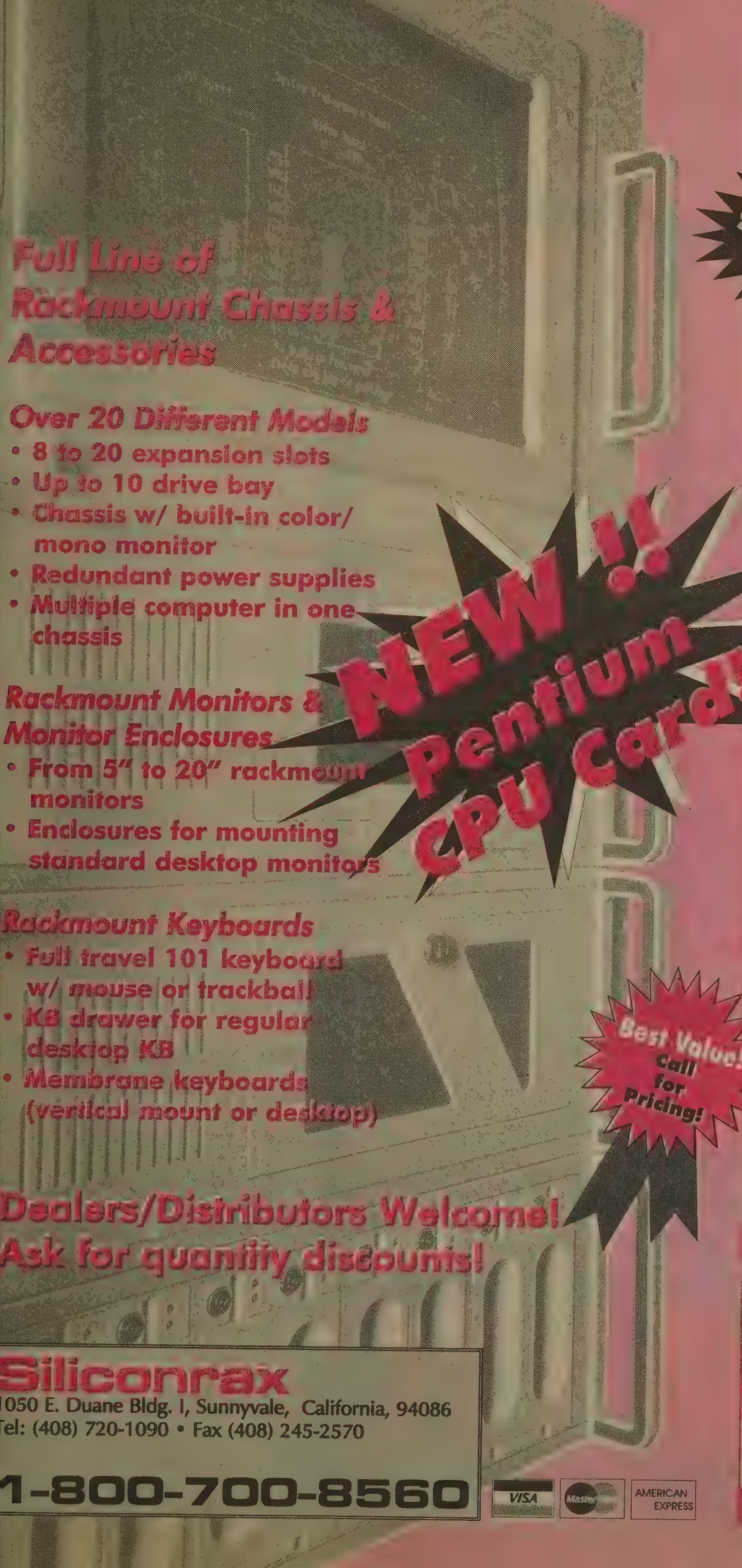

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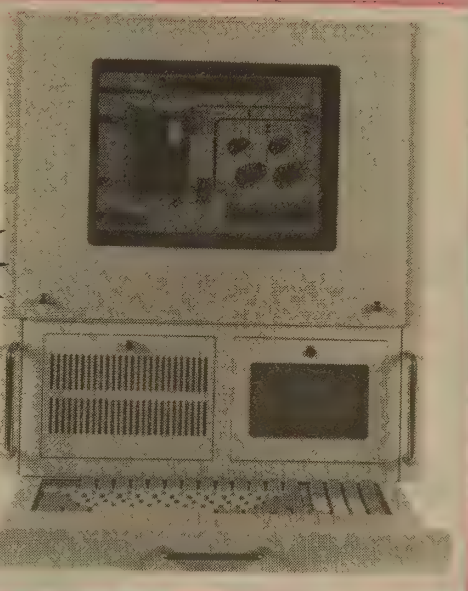

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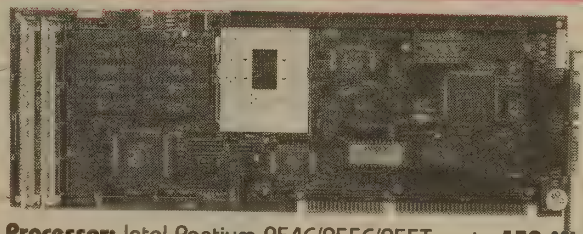

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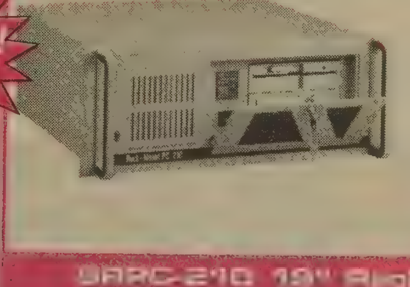

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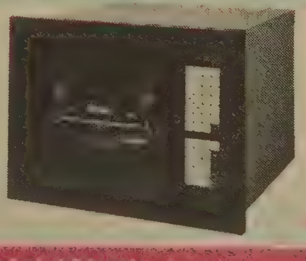

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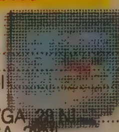

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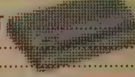

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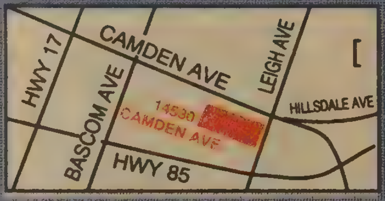

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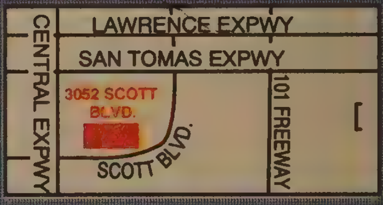

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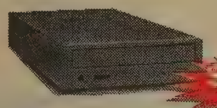

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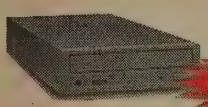

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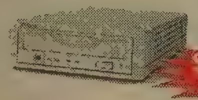

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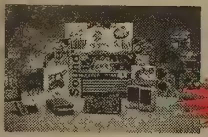

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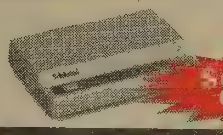

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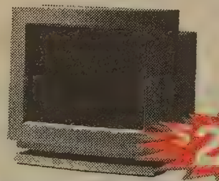

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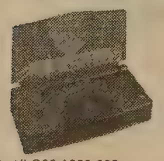

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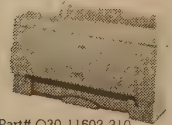

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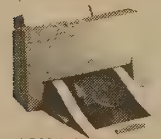

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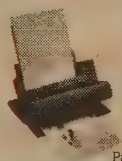

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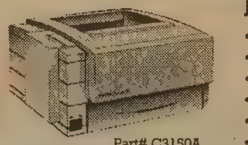

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Illuminated Colors And Clairvoyant Gurus

Thoughts On Color Calibration

The gurus needed a break. It had been a hard, fractious morning. Some had fussed over the Windows 95 installation and the failure of some mysterious driver to load. Some had fretted over the modified Babylonian Algorithm. And everyone had noted an article in the Business section of the *New York Times* describing Web pages in memory of Jerry Garcia. We *are* everywhere, they thought, and that is no consolation at all.

Hunkering down over scones and cappuccinos at Jimmy Bean's, they resolved, in the silent way that gurus do, to concern themselves with something else entirely. "What about the UNIX color printing problem?" asked Baba Knosebest telepathically.

All eyes turned toward Knosebest. "What color printing problem?" someone thought derisively.

"No one can afford a color printer," someone else carped silently. "That's the problem!"

Knosebest fixed this wag with a stare and thought, "Color printers are getting cheaper all the time, and that, in fact, along with the proliferation of color monitors, is exactly the problem.

"You know, we traipse all over the World Wide Web collecting interesting graphics. They're absolutely startling on the screen, but when you try to print them, something doesn't work exactly right. Right?"

"Okay, yes," the wag admitted in his heart of hearts.

A Short Enlightenment On Color

"Unfortunately for us all," Knosebest thought, warming to his subject, "color is a very tricky thing. It's subjective, a matter of perception, the effect of light on the eye and the brain. Your eyes have receptors for certain wavelengths of light that the brain turns into colors. You could say that color perception is 'device dependent.'

"Just as color perception depends on your eyes and brain, color production is also device dependent. Think about oil paints, for example. When you mix oil paints of two different colors together, the mixture seems to reflect light differently from either of the starting colors. In essence, the mixture produces a third color by adding qualities of the two colors you started with. You could say the new color is produced 'additively.'

"Everyone learns pretty early about primary colors and how to mix them. We've all been taught that red, yellow, and blue are the primary colors, but this isn't exactly so.

"Red, *green*, and blue serve as the primary colors for producing colors additively. The primary colors are the basics from which the widest range of colors can be created. Red, green, and blue basically define three dimensions of a 'color space' containing all the colors that can be produced by combining those three colors in different proportions.

"Reflection or 'addition' isn't the whole story about how colors are produced, however. Some paints, like watercolors, are translucent, and when translucent paints are combined, new shades of color are produced because the combined paints absorb or filter out some wavelengths of light.

"You could say that watercolors and other similar media produce new colors 'subtractively.' For media that produce subtractive color, the primary colors are slightly different: cyan, magenta, and yellow. As with additive color, these primary colors represent three dimensions of a color space." Pleased with this train of thought, Knosebest paused.

"For goodness' sake, this is hardly news," another guru opined wordlessly. "I learned this in high school physics. There's even a standards organization for this sort of thing, the International Commission on Illumination (Commission Internationale d'Eclairage, CIE), which adopted a standard for describing three-dimensional color spaces in 1931. The CIE standard (called CIE XYZ) specified a color space relative to the eyes of a Standard Observer. Human, I might add."

"Of course, of course," Knosebest tried to reclaim the high ground. "The interesting thing is that all this stuff about additive and subtractive colors and about color spaces extends to computer peripherals.

"Remember, monitors are 'RGB' devices. They produce colors additively, typically by stimulating phosphors (Don't ask!) that emit red, green, or blue light. Any color that a monitor is capable of can be described by coordinates in an RGB color space.

"A color printer, on the other hand, produces colors subtractively by overlaying dyes or inks to filter some light wavelengths. The basic ink colors used to do this are cyan, magenta, yellow, and sometimes black. You could say that printers are CMY (or CMYK) devices and the colors they produce can be represented in a CMY color space."

"Really," one of the younger gurus intervened, "all this stuff about colors in three dimensions is giving me a headache."

"Egad," another mocked, "I think I'm having a flashback!"

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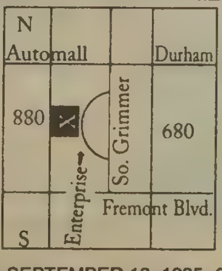

"As if you had anything to flashback to," a third grumbled in silence.

"Lest you miss the point," Knosebest thought sternly, "mapping the colors that a device can produce into a 3-D color space is a very useful thing. It provides a relatively simple programming interface for a device's color capabilities.

"Given adequate information about the device, you can select any color in a device's color space using the three numbers that are its coordinates."

"Oh. I see. You're talking about device calibration: you could use the color space idea to program a color printer to produce the colors you want."

A Better Path, A New Pitfall

"Only, isn't that kind of complicated?" These words were actually spoken aloud by a busboy wiping away crumbs and collecting dishes at the next table. The sound startled them all.

"Depends," Knosebest said. "It would be a real pain if you had to write a C program every time you wanted to tweak the color on a graphic. What you really want is software that provides a convenient interface to program the way the printer handles colors."

"There's a commercial program called Easycopy/X (from AutoGraph International) that offers a lot of image printing control for UNIX systems," volunteered the busboy. "In addition to drivers for printers of all sorts, Easycopy/X provides a Motif-based interface for manipulating color images. It uses the CIE LUV color space which is based on CIE/XYZ and is suited for managing subtle differences between colors.

"Managing image printing is more than just calibrating the printer, so Easycopy includes general facilities for screen capture and for reading and converting a range of graphics formats. It works with the UNIX print spooler and allows the business of image processing to be distributed around a network.

"Easycopy/X runs on a wide range of UNIX hosts: Silicon Graphics, Sun, IBM, HP, and various offerings from Digital. Hopefully they're working on a Linux port, too."

"!!!" the gurus thought in unison.

The busboy continued, "Having a way to calibrate printers is cool because you can get what you want from the printer. But isn't there a bigger problem?

"After all, the RGB and CMY color spaces aren't the same: the range of colors that can be produced additively with red, green, and blue doesn't exactly match the range of colors that can be produced subtractively with cyan, magenta, yellow, and black.

"To make matters worse, the relationship between the two color spaces isn't exactly straightforward. In the RGB color space, all the coordinates are positive numbers. In the CMY color space, coordinates can be negative. The bottom line is that you may not be able to move easily from one color space to another.

"And consequently, even if you can control the

continued on page 212

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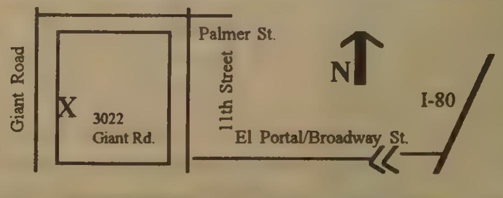

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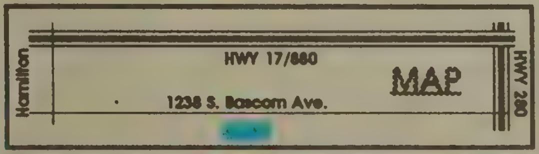

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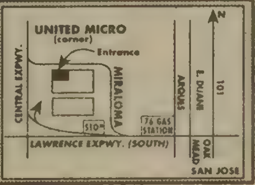

OS/2 • BY FABIAN PASCAL

Solutions vs. Workarounds

Wandering In The Wilderness

I've been working on several projects, hoping to write about them in this and forthcoming columns.

One is the saga of upgrading my system, particularly the motherboard. I did switch from the Intel Zappa board that I described in a previous column to another, but my unit had a defect and I had to have it replaced (validating my advice to stick to local vendors if possible). I've also started to get frequent OS/2 system crashes and file corruption, but it's not yet entirely clear what causes them. The second unit has not resolved this problem.

In February last year I published a column ("An OS/2 Reality Check, Part 2") on scanning under OS/2. More than a year later, Hewlett-Packard has released a new ScanJet model, the 3C, so I wondered if OS/2 support, in hardware and software terms, has improved. Having gotten a review unit from HP (as well as a Fujitsu ScanPartner, claimed as supported by one application), I've been testing several OS/2 scanning applications which are now available, but ran into rather serious problems. It may have something to do with my system, but I am still waiting for the developers to get back to me.

I've also been working on OS/2 PC Card (formerly PCMCIA) support for quite a while and, in fact, wrote some introductory comments in my January column about it, when support was still weak. After checking with several vendors of desktop PC Card socket drives, I found one who offered support—albeit, with some qualifications—for OS/2 and got a review unit. Other vendors provided hard disk and faxmodem cards. Yet despite the considerable, repeated efforts invested in trying to make things work under OS/2 (including a long visit by the vendor's technical representative to my office), we have not yet succeeded (even though the operation under DOS was smooth).

What is particularly worrisome about these problems is not just that they occur—this is rather common in the industry and not peculiar to OS/2. The true problem is that if and when they do occur, it is extremely difficult and frustrating for the average individual PC user to even identify their causes, let alone obtain solutions. Claims to the contrary notwithstanding, both my personal experience and my interactions with clients, reader's, and vendors support this position firmly. Note that this does not mean that this is true in each and every case, but it is, nevertheless, quite common (see sidebar).

The Tale Of The CD-ROM Installation

Be that as it may, as I waited for some of the projects to reach points where I can write about solutions, not just problems, I came across a case where a solution was—seemingly—provided. At the same time, the situation also raises questions regarding OS/2 support. I will leave it to the reader to form a perspective on this subject, but it's a rather common occurrence in the OS/2 world.

At issue is installing Warp on a notebook from CD-ROM, an obvious and rather basic user need. In my June column (written, due to the constraints of print, in May), I wrote the following: "So, how do you connect a notebook to a CD-ROM drive?...[one] option is a PCMCIA-to-SCSI card, which plugs into a notebook's PCMCIA slot and connects to any SCSI device with a cable, acting like a SCSI controller. For example, QLogic's Fast!PCMCIA-10 does just that and there is even a beta OS/2 driver to boot...well, booting is actually a problem. You can use the card to access a SCSI drive from a notebook *running* OS/2, but you won't be able to *install* OS/2 from CD-ROM, because Warp does not support PCMCIA at bootup and, thus, it does not recognize the CD-ROM drive through a PCMCIA card."

The background of this statement is as follows. I got a review unit of the Fast!PCMCIA-10 card from QLogic. I had a Cypress notebook computer (which I reviewed in that column) and a Chinon 535 external CD-ROM drive that I use with my desktop. I had information, received much earlier from an internal IBM source (and validated by my own experience and others), that OS/2's design, *since version 1.x*, did not allow it to boot from removable drives (except if they can be "fixed," as in the case of Bernoullis). This ruled out booting from a CD-ROM or PC Card drive.

Nevertheless, I made several installation attempts (using an OS/2 driver downloaded from the QLogic BBS) and they indeed failed. QLogic contacted IBM and informed me that, indeed, installing Warp that way was "not supported" (see below). Since that confirmed what I already knew, I expressed it in the paragraph above.

Having recently purchased an IBM ThinkPad 500 notebook, I've been frequenting the THINKPAD forum on CompuServe, where there are various exchanges on OS/2. There, some users, who could not install Warp from CD-ROM either, asked for help. I sometimes gave them the information I had—that it was not possible. Nobody claimed otherwise, including the forum's IBM support staff.

Then, on July 31, somebody posted a message that he found a way to install Warp FullPack on a ThinkPad 755CE from an NEC Intersect 84 2x CD-ROM drive using an Adaptec

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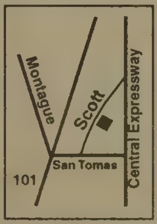

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SlimSCSI 1460 card. He provided detailed instructions in a file which he uploaded to the forum's library and which I downloaded and reviewed.

The process involves, mainly:

1. Preparing diskettes for the installation by making copies of the two distribution diskettes that come with the CD-ROM Warp FullPack, deleting unnecessary drivers from them, adding specific ones (mainly IBM PC Card) from the CD-ROM, and modifying CONFIG.SYS files accordingly (this must be done, of course, on another machine already running Warp).

2. Downloading a driver for the SlimSCSI 1460 card from the Adaptec BBS, copying to the #1 diskette, and revising the CONFIG.SYS file on it accordingly.

3. In case the original partitioning of the ThinkPad was, or is being altered, formatting the installable partition in the "long" format, not the "quick" one which Warp uses by default (needs to be done from the command line, to which you must exit at some point).

4. At end of Warp installation, replace the Adaptec default driver installed by Warp on the hard drive with the BBS SlimSCSI driver.

The file's author presents himself as a very experienced OS/2 user and programmer, IBM-designated "OS/2 Advisor" on CompuServe. Even so, he admits that it took him considerable experimentation by trial and error (some five installations) to work the procedure out and validate it.

When microprinted four-up in booklet form, the instructions file yields fifteen logical pages on four one-sided regular size paper pages. Granting that the author made an effort to provide very thoroughly detailed, step-by-step instructions and that some of the space is taken by listings of directory contents of the diskettes required for the installation, the entire procedure requires a considerable amount of knowledge and effort. It is not difficult to follow the instructions, but they are somewhat tedious (in my opinion, it would take at least two to three hours from downloading the instructions to completing the installation, for the specific configuration in the file).

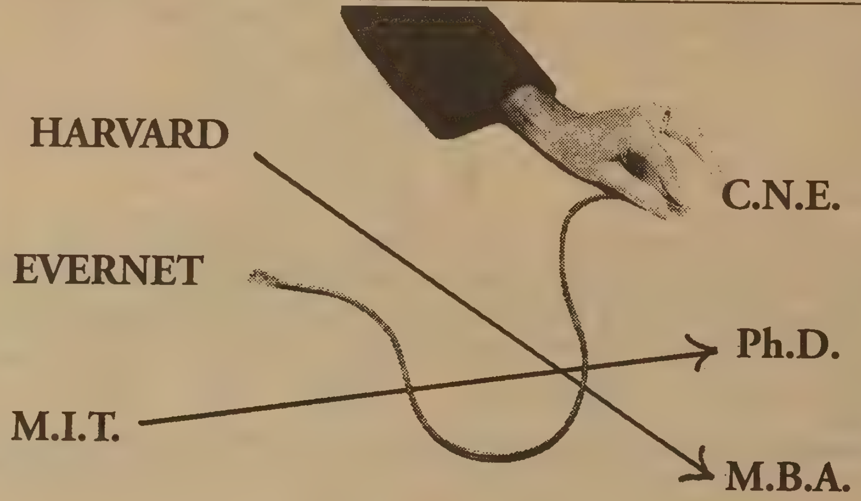
Moreover, while the author expresses hope that the procedure can be modified to work with other configurations (Warp for Windows, other CD-ROMs, adapters other than the SlimSCSI, other ThinkPad and notebook models, he correctly certifies the procedure only for the specific products mentioned. My experience with such variations, however, suggests that success is not guaranteed. As of this writing the empirical evidence is mixed: one user reported success, another failure (using ThinkPad 755s, and SlimSCSI adapters!).

So, on the one hand, at least a potential solution was suggested and I am still prepared to test and document it in my column (stay tuned).

But, on the other hand, the following points are also in order:

I did research the issue, relying not just on

continued on page 326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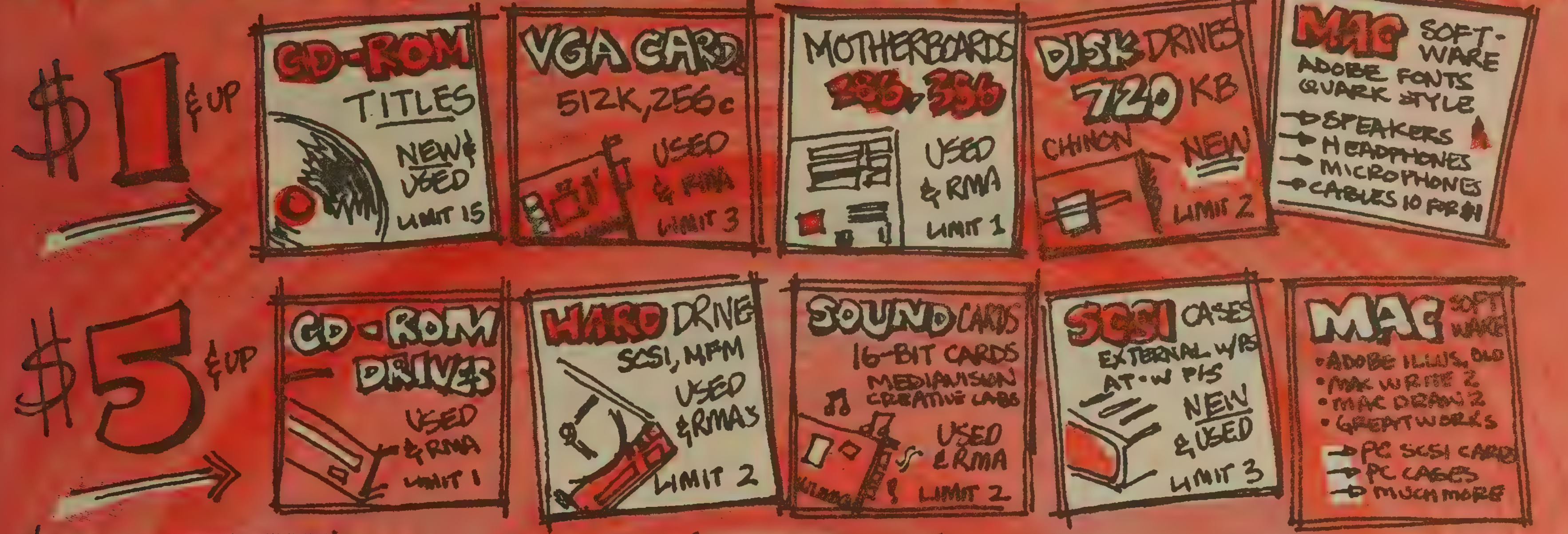

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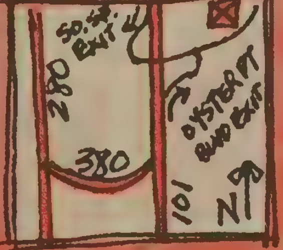

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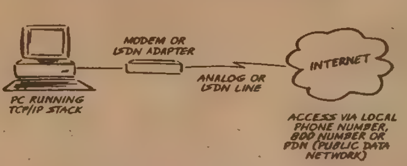
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PC RUNNING TCP/IP STACK
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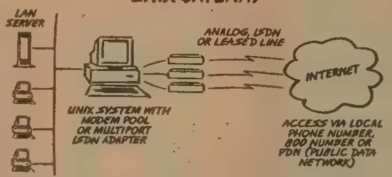
At home, the easiest way to connect with the Internet is through an on-line service such as CompuServe, Delphi or Prodigy. All you need is a PC, a modem, and communications software such as Carbon Copy or ProComm. The Internet provider takes care of everything else for a monthly fee plus a per-minute usage charge.

Another option is to use a service such as PSI's InterRamp which provides you with an actual IP address on the Internet. For this option, you need to run an IP protocol stack on your PC along with some type of Internet access package. There are packages available today that offer both TCP/IP and Internet access in a single package. Or, if you are technically adept, free "shareware" can be downloaded from the Internet.

LAN InterNet Access

Many companies today are choosing to provide all network members with Internet access. Following are two options for linking LANs to the Internet.

UNIX GATEWAY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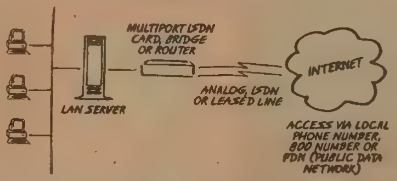
UNIX SYSTEM WITH MODEM POOL OR MULTIPORT ISDN ADAPTER
ACCESS VIA LOCAL PHONE NUMBER, 800 NUMBER OR PDN (PUBLIC DATA NETWORK)

One of the easiest solutions is to set up a Unix host as a gateway for PC or terminal users to the Internet. For example, SCO's Global Access product integrates TCP/IP networking services, a graphical user interface, graphical e-mail, security and the SCO Unix operating system into a single package. Non-Unix Computers will need to run an X-terminals emulation package to access the Unix gateway. A modem pool Multiport ISDN adapter, or other communications device, is also needed.

IP ROUTER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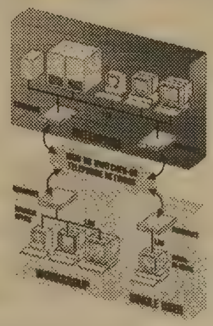
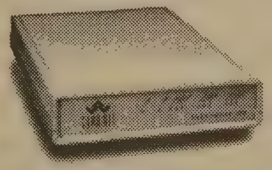


The EVERYWHERE 2000 Series is compatible with any computer with an Ethernet interface, and allows remote access to all applications and data resident on an enterprise network.



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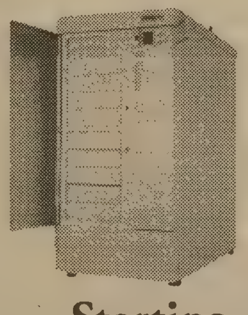

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My conversion came from trying out two specialized programs, both of which are designed to help a small-business owner through particularly difficult times in business life. One is the moment you need legal advice. The other is the day you must make a business plan.

My Kingdom For A Plan

Business plans are not just something you cobble together when you want to apply for a loan. They are instead a tool to determine where you are going, and to measure how far you have gotten.

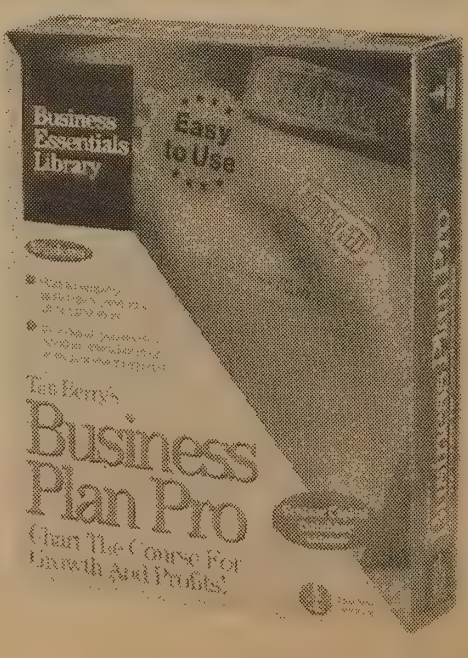
“OK,” you say, “interesting,” and you turn back to your tasks. Life is too short to spend on things like business plans.

Gentle reader, you may change your mind after you see Palo Alto Software's Business Plan Pro. It makes the purposes and means of business planning clear (and accessible) to those of us who may have stumbled into small business.

I read much of the manual in one long bus ride from downtown San Francisco. I discovered that Business Plan Pro is not so much a piece of software, as it is an idea with software support. The idea is to get your assumptions about your business clear enough so you can check them against reality. The software is a pleasantly designed package in support of that task.

> You can use Business Plan Pro to evaluate an idea before you start it—to look before you leap. If you have already leapt, it can give you some idea of where you have landed.

Very near the beginning of the process you are asked to say what your business is about—your mission statement. If you scratch your head and wonder what that really means, Business Plan Pro has provided two helpful aids for this and every piece of writing you need to do—definitions, and examples.


Business Essentials Library
Easy to Use
Tim Berry's
Business Plan Pro
Chart The Course For Growth And Profits!

“The mission statement is like a business charter. It should summarize your business goals, your business offering, and your target market. What are you selling, and to whom? Why?” This is the definition that Business Plan Pro gives you.

If you prefer, you can click a little radio button, and the definition is replaced with an example: “Acme Widgets is a manufacturing company dedicated to developing better widget solutions for widget users who can't get what they need from the mainstream widget manufacturers. We intend to make enough profit to generate a fair return for our investors and to finance continued growth and continued development in quality product. We also maintain a friendly, fair, and creative work environment, which respects diversity, new ideas, and hard work.”

This definition-and-example strategy is followed with all the text items you need to write. While the definition or the example is open, there is also a text box for you to write your company's statements. Business Plan Pro asks a lot of questions, but it helps you to answer them as well. When you begin a new business plan, it asks you if you are planning a service, retail, distribution, or manufacturing concern. Are you going to sell only for cash, or extend credit? Are you a business-in-progress, or is this a startup? Are you using a home office? Your responses to these queries determine what further questions the program will ask you.

Useful as it is to have a guide to writing, Business Plan Pro is more than a specialized word-processing program. It also has a family of small spreadsheets. These allow you—should I say “force

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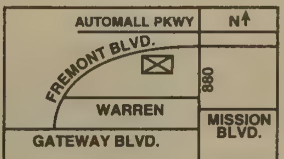

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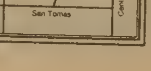

you"?—to make explicit those assumptions on which your business rests.

One of them asks whether you do all your business in cash, or if you bill people. How long does it take them to pay? How long do you have to pay your bills? What does cash cost you if you have to borrow it? What does it cost you to employ someone, beyond what you actually hand them in their paycheck?

Some of the most useful information in the package is in the appendices to the manual: material about the government resources that have been available and may still be through the Small Business Administration and state agencies; information about how to find venture capital, and useful caveats about people who charge to help you find money.

One appendix entitled "Starting a business" tells in a few pages what many of us have sweated and wept to learn. For instance:

"The myth of 'being your own boss': you are not your own boss when you own a business. Your customers are your boss. Your bank is your boss. Your fixed costs are your boss..."

"The myth of independence: owning a business doesn't make you independent—not needing money makes you independent. As long as you need money you can't be independent."

Ah, yes.

When you have finished with the questions and filled in all the blanks, you will have a rough business plan.

The program has only an ASCII word processor, so it will not make a finished and formatted business plan with all the typefaces you may wish to use. It will produce a group of charts you can embed in a document, and a text file you can import into a word processor for further embellishment. You can print out drafts of text, or of charts, or of both from within Business Plan Pro.

The program worked well, but it was a royal pain to install. Fuming, I called the company's home office at five o'clock sharp. I was mollified when a woman named Janie—she claimed she is not part of the help staff; she just made the mistake of answering the phone instead of heading for home—talked me around the installer for a by-hand installation. She saved the company's reputation on her own time, and will surely be given a raise.

Using the program is a lot like taking a class. It will not do the work for you. It does ask you to do most of the thinking—but you want to do that anyway. What it does do is to provide you with the questions and tools you need to make a business plan to guide your enterprise. If you know nothing about business jargon, it will teach you some accounting words and concepts. You will need them to talk about what you are doing in the language a bank or a potential investor will understand.

You can use Business Plan Pro to evaluate an idea before you start it—to look before you leap. If you have already leapt, it can give you some idea of where you have landed.

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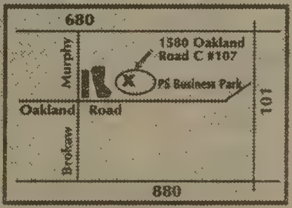

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to ask intelligent questions and to understand the answers. That's my definition of an education. Now they are bringing to Windows software what they have long offered in print. Nolo's Legal Guide for a Small Business takes up only two megs of your hard disk, but it packs a lot of information into that space.

The information is indexed and outlined. In fact, it looks as if someone has used the technology we see in Windows Help to build a full free-standing program. It has hypertext in the familiar green text, some illustrations, and a search engine to find topics. If you have a lot of information to distribute in your profession, you might want to buy this program to use as a model.

What I find most appealing, beyond the obvious competence of the author, is the breezy style of the writing. Without being cute the author has made the law palatable.

When I looked up "Home Based Businesses" I found several subheadings. One was "Taxes." Click, and I was there. Author (and attorney) Fred Steingold treats us to many screens of clear and careful definitions of what is and what is not a deductible home office.

The IRS requires (it says here) that you use that part of your home "exclusively and regularly as your principal place of business, as a place to meet or deal with customers, clients or patients in the normal course of your business, or in connection with your business if you're using a separate structure (such as a garage) that's not attached to your house."

What does all that mean? Steingold has given examples for almost every word of this definition. He talks about a den where you prepare legal briefs and tax returns but also watch TV and play poker (not deductible). A salesman who spends thirty hours a week working at home has the home as his principal place of business (deductible, probably); but if a plumber spends ten hours a week in her home office and the rest of the time in the field the home office is not deductible, because it is not her principal place of business.

If you ask someone to write you a piece of business software, are they an employee or are they an independent contractor? I went to the index and looked up "employee." A quick zip through the employee-related topics and I found "employee vs. independent contractor." Click, and there is information about tax rules. It says here that the IRS decides a person's status by the amount of control you have over the worker. "Basically, if you con-

continued on page 85

RESOURCES:

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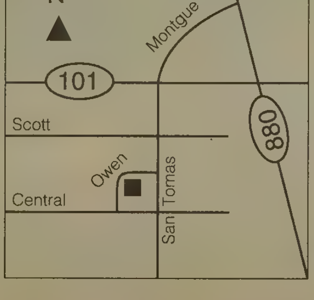

CPU & Memory Xchange Club
2370 Owen St., Suite B, Santa Clara, CA 95054
Tel: 408-654-9090 • Fax: 408-654-0415
Office Hours: M-F 9-6 • Sat & Sun 12-5

CPU & Memory Xchange Club
San Francisco Office
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(subject to credit approval)

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WHO WIN? ENTER

486 Green ISA VLB

- 486 ISA VLB 256K Cache EPA Green Motherboard
- 4MB 70ns 72Pin FP SIMM RAM
- 1.44MB Floppy Drive
- 540MB Quantum FireBall QM-30540FBA E-IDE Mode-4 HD
- VLB IDE Controller w/ 2 serials, 1 parallel
- Trident 9440 VLB 1MB Windows Accelerator
- 14" 1Kx768NI 0.28DP Digital Green Monitor
- Premium Digital Mini Tower 230W PS
- Mitsumi 101 Enhanced Keyboard
- 3 Button MS Compatible Mouse w/ Pad

80DX2	$845
100DX4	$884
120DX4	$979

486 Green ISA PCI

- 486 ISA PCI 256K Cache EPA Green Motherboard w/ PCI Bus Master Enhanced IDE, 2 x 16550 UART's & ECP/EPP
- 8MB 70ns 72Pin FP SIMM RAM
- 1.44MB Floppy Drive
- 540MB Quantum FireBall QM-30540FBA E-IDE Mode-4 HD
- Mitsumi FX-400 4X Spd ATAPI IDE CD-ROM /w Audio Cable on 2nd Channel
- Creative Labs Sound Blaster Vibra 16 Stereo Sound Card
- Trident 9440 PCI 1MB Windows Accelerator
- 14" 1Kx768NI 0.28DP Digital Green Monitor
- Premium Digital Mini Tower 230W PS
- Mitsumi 101 Enhanced Keyboard
- 3 Button MS Compatible Mouse w/ Pad

80DX2	$1210
100DX4	$1248
120DX4	$1344

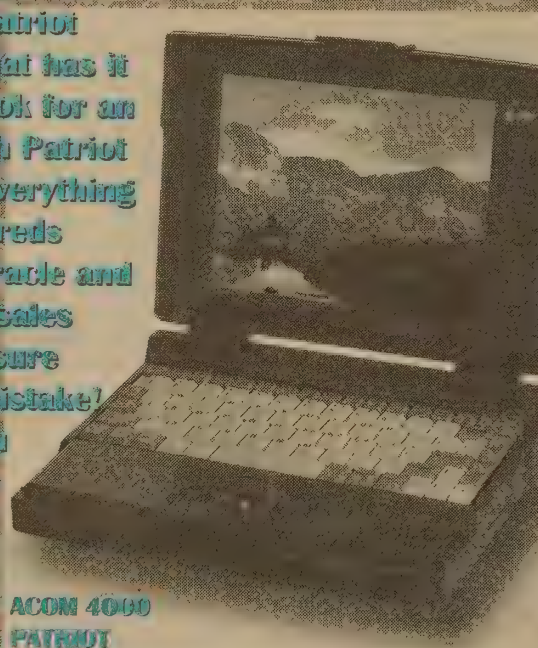
Pentium Intel Zappa

- Pentium Intel ZP Zappa Triton Chipset PCI 256K Motherboard w/ 4 BusMastering PCI Enhanced IDE ports, 2 x 16550 UART's & ECP/EPP
- 8MB 70ns 72Pin FP SIMM RAM
- 1.44MB Floppy Drive
- 540MB Quantum FireBall QM-30540FBA E-IDE Mode-4 HD
- Trident 9440 PCI 1MB Windows Accelerator
- 15" 1280x1024NI 0.28DP Digital Green Monitor
- Premium Digital Mini Tower 230W PS
- Mitsumi 101 Enhanced Keyboard
- 3 Button MS Compatible Mouse w/ Pad

** Call for EDO Memory Upgrade

75MHz	$1311
90MHz	$1408
100MHz	$1504

Introducing ACOM Patriot 4000, a notebook that has it all. Why bother to look for an IBM or Toshiba? With Patriot 4000, you can get everything you desire, for hundreds less! Backed by UMiracle and ACOM sophisticated sales and support teams, sure there won't be any mistake! If it is brought to you by UMiracle, it is the best value because we have done the shopping so you don't have to!


ACOM 4000 PATRIOT

SPECIFICATIONS

CPU
- Intel 486DX2-50/66MHz (SL Enhanced)
- Intel 486DX4-75/100MHz

BIOS
- 1MB flash ROM
- Phoenix BIOS

Memory
- Memory Module (4MB and 16MB)
- 4MB RAM (expandable to 8MB/16MB/20MB/32MB)
- LIM EMS 4.0 supported

Disk Drives
- Built-in 2.5" 540MB harddisk up to 1.3GB
- Programmable power down feature
- Easy to remove/change
- Detachable 3.5" 1.44MB floppy disk drive

Display
- Western Digital video controller with 1MB RAM
- 9.5"/10.3" viewable screen size
- Active (TFT)/Dual scan (DSTN) color or supertwist monochrome (STN)
- 32bit VESA local bus VGA windows acceleration
- LCD resolution: 640x480x256 colors or 64 shades of gray
- CRT resolution: 1024x768x256 colors
- Programmable screen saver
- 1024x768 super VGA non-interlaced ouput to external monitor
- Support simultanous display for LCD & CRT
- Built-in 25mm ergonomically designed trackball
- One type III or two type II PCMCIA slots
- One serial port
- One bidirectional parallel port
- 15-pin external VGA video port
- One PS/2 port for external keyboard or mouse
- 160-pin connector for docking station
- One audio line-in jack
- One audio line-out jack
- One microphone jack

Keyboard
- Enhanced multifunctional keyboard
- 12 total function keys
- Integrated numeric keypad functions, keyboard mouse emulation
- Inverted "T" type curosr key arrangement

Weight (with single battery)
- 5.5lbs (monochrome)
- 5.9lbs (dual scan color)
- 6.1lbs (active color)

Power system
- Intelligent power management system
- Rechargeable Ni-Cad/NiMH battery pack
- Support two identical battery packs with warm swap function
- Universal auto-switching AC/DC adaptor
- Long operation time
- Single battery: 4 hours
- Dual battery: 8 hours

Audio Function
- Digital audio
- Record, compress, store and playback voice, sound and music to disk
- Microsoft sound system, sound blaster compatible
- Microsoft recorder and media player compatible
- Built-in microphone/speaker
- Audio software, Audio recorder, audio reminder, audio clip library, stop watch, talking calculator and chrime

Dimemsion
- 11.4x8.7x1.88" (dual scan color)
- 11.4x8.7x2.00" (active color)

Docking Station

Expansion Slots
- Three full-length 16 bit ISA slots
- One half-length 16 bit ISA slot

Bays
- Two 5.25" opened drive bays
- One 3.5" internal drive bay
- One battery charger or 3.5" floppy slot

Sub-systems Features
- Serial ports, Parallel port
- External leyboard port
- PS/2 mouse port
- 15-pin external video port

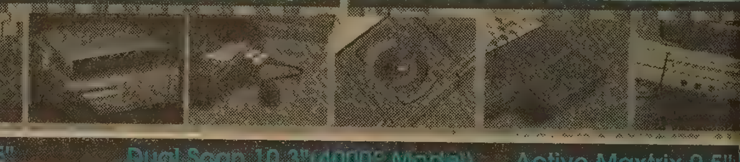
Power system
- 110/230V, 150W switchable power supply

Physical
- 14.34"(w)x14.34"(d)x3.72(front)" and 6.35(rear)"(h)

Optional Devices
- One CD-ROM Drive & one 5.25" SCSI device
- One 3.5" full size hard disk (SCSI type)

Extra features for Model 4000F Dual Scan 10.3"

- High Speed 16550 UART serial ports
- Enhanced Parallel port
- 16Bit Sound card Built-in
- Built-in glide point touch pad pointing device
- Virtual Screen enabling 1024x768 Desktop
- Light Weight AC Power Transformer



UMiracle

UMiracle Microsystems

[illegible] Fremont Blvd. Fremont, CA 94538
[illegible]
[illegible] San Pablo Ave. Albany, CA 94706
[illegible]
[illegible]
[illegible]

(540/810MB/1.3GBHD)	Mono VGA 9.5"	Dual Scan 10.3"(4000F Model)	Active Maxtrix 9.5"
486DX2-66SL	$1401/$1554/$1747	$1757/$1910/$2075(+$145)	$2294/$2446/$261
[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16MB Memory Module	$555	Car Adaptor 12V	$45	BackPack 2X CD-ROM	$295
540MB 2.5" IDE HD	$305	PCMCIA 2X CD-ROM	$265	BackPack 4X CD-ROM	$380
810MB 2.5" IDE HD	$345	PCMCIA 14.4 Fax/Data	$99	ACOM Docking Station	$465
1.0GB 2.5" IDE HD	$540	PCMCIA 28.8 Fax/Data	$259		
1.35GB 2.5" IDE HD	[illegible]	PCMCIA Ethernet Combo	$169		

- Free Local Area Delivery for System Purchase
- 1 Year Parts and Life Time Labor Warranty
- No-on-hold Expertise LifeTime Tech Support
- While-You-Wait Immediate Replacement/Repair Service
- 30 Day Money Back Compatiblity Guarantee on Systems

Prices, Availability and Specificatio subject to change without notice. responsibile fo typographical erro All advertising prices reflect 2% check/money order/Cashier chec payment discounts. 15% restockin charge applied on all parts returns after 7 days.

Pentium 200MHz PCI

entium Triton Chipset PCI 256K Cache Motherboard
upporting 75 to 200MHz CPU w/ Socket 7 & VRM, upto 512K SYNC Cache using CELP COAST
upporting FastPage/EDO upto 128MB, w/ 4 PCI Bus Master Enhanced IDE, 2x 16550 UARTS & ECP/EPP
MB 70ns 72Pin FP SIMM RAM
44MB Floppy Drive
28GB Conner CFS1275A Fast IDE HD
shiba XFM-5302B QuadSpd IDE 256K CD-ROM on 2nd Channel
reative Labs Sound Blaster Vibra 16 Stereo Sound w/ Audio Cable
amond Stealth 64 Video 2MB DRAM Windows Accelerator
" 1280x1024NI 0.28DP Digital Green Monitor
emium Digital Mini Tower 230W PS
eyTronic 101 ProTouch Enhanced Keyboard
icroSoft Ergonomic Mouse w/ Pad

Call for EDO memory, Pipelined Burst Sync Cache upgrades

75MHz	$1695
90MHz	$1793
100MHz	$1889
120MHz	$2092
133MHz	$2247

SURE RUN WINDOWS 95

Pentium Intel Endeavor

- Pentium Intel-Made Endeavor EV Triton Chipset PCI 256K Async Cache Motherboard
  supporting 75 to 133MHz CPU w/ VRM, upto 512K Pipelined Sync Cache using CELP COAST module
  supporting FastPage/EDO upto 128MB, w/ 4 PCI Bus Master Enhanced IDE, 2x 16550 UARTS & ECP/EPP
  built-in Creative Labs Sound Blaster Vibra 16 Stereo Sound w/Line-in/out, MIDI port, WaveTable Socket
- 16MB 70ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- 1.28GB Conner CFS1275A Fast IDE HD
- Toshiba XFM-5302B QuadSpd IDE 256K CD-ROM on 2nd Channel
- Diamond Stealth 64 Video 2MB VRAM Windows Accelerator
- 15" Hitachi Superscan NS1587 1280x1KNI 0.28DP Green Monitor
- Premium Digital Medium Tower 230W PS
- KeyTronic 101 ProTouch Enhanced Keyboard
- MicroSoft Ergonomic Mouse w/ Pad

**Call for Pipelined Burst Sync Cache upgrade

75MHz	$2250
90MHz	$2348
100MHz	$2264
120MHz	$2647
133MHz	$2802

YES, WE DO NETWORK! CALL NOW!

AIR Dual Pentium EISA PCI

- AIR Pentium 54CEP 512K Cache EISA PCI Motherboard
  w/ PCI Bus-Mastering Adaptec 2940W built-in on brd, 2x 16550 UARTS, & ECP/EPP
- 16MB 70ns 72Pin FP SIMM RAM
- 1.44MB Floppy Drive
- Fujitsu 2.1GB Fast Wide SCSI-2 68Pin 512K 10ms M2915QAW HD
- Pananasonic CD-504B Quad-Spd SCSI-2 CD-ROM
- Creative Labs Sound Blaster Vibra 16 Stereo Sound w/ Audio Cable
- Matrox MGA Millennium PCI 2MB Window RAM (WRAM)
- 17" MAG DX-17F 1280x1KNI 0.28DP Digital Green Monitor
- Premium Digital Full Tower 250W PS
- KeyTronic 101 ProTouch Enhanced Keyboard
- MicroSoft Ergonomic Mouse w/ Pad

**Dual CPU support requires
AIR 54CDP Dual P5 Motherboard
** Call for Dual 120 or 133MHz Configuration

90MHz	$3716
100MHz	$3812
Dual-90MHz	$4171
Dual-100MHz	$4364

P TO
133
MHz

ULTIMATE WARRANTY
LIFE TIME
LABOR

LOOKING FOR YOUR DREAM MACHINE AT THE CHEAPEST PRICE? SHOPPING FOR A PC IN THIS RAZAR-THIN-PROFIT INDUSTRY IS DANGEROUS BECAUSE 70% OF THE DEALERS WON'T LIVE TILL THE FORTH YEAR IN BUSINESS, MOST SELL 3 OR 4 MACHINES A WEEK WITHOUT KNOWING WHAT THEY ARE SELLING AND 99% DON'T WANT TO SEE ANY MACHINE COMING BACK AFTER YOU WALK OUT OF THE DOOR. AT UMIRACLE, WE BUILD HUNDREDS OF PC'S EVERY WEEK, WE TEST EVERY POSSIBLE COMBINATIONS OF SOFTWARE AND HARDWARE FOR COMPATILIBTY, AND WE STAND BEHIND YOUR PC'S LIFETIME LONG! WHY? BECAUSE WE LOVE YOUR PC AS MUCH AS YOU DO! COME BY AND VISIT ONE OF OUR STORES AND YOU WILL FIND OUT WHY YOU WILL BE THE WINNER!

Albany Store

Ph:510-526-0271
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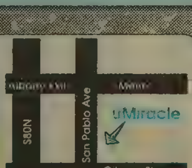
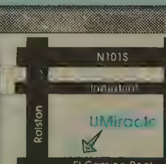


Off I-80 Albany Exit, go toward the hill and turn right on San Pablo Avenue. We are facing U.C. Village. Or off I-80 Gilman St, go toward the hill and make a left turn on San Pablo Avenue.

Belmont Store

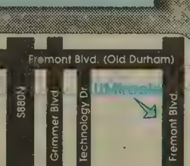
Ph:415-592-3333
[illegible]



From north, Off I-101 Ralston Ave, go towards west, left on El Camino Real and make a U-turn. From south, exit Holly St, right on El Camino Real, 3 minutes down the block.

Fremont Store

Ph 510-226-6746
[illegible]



Off I-880 Auto Mall Pkwy East, pass Technology Drive and make a right on Fremont Blvd, (or off 680 Durham, go west, pass Osgood Rd, then make a left on Fremont Blvd.) first driveway on your right.

OUR SERVICE, OUR COMMITMENT

- All complete systems are assembled, jumpers and switches setup/configured, DOS V6.22, Windows V3.11,Windows 95 and all included software installed for testing purpose, high resolution video monitor mode tested and continously burned in for 48 hours on all components and finally interactively inspected for trouble-free operation. All systems are to be visual inspected by customer at pick up time.
- Most advertised standard systems have been pre-built, burn-in tested and are ready to be picked up or delivered within 30 minutes IN FREMONT MAIN OFFICE - Please allow more time for minor configuration changes. Standard delivery time is 72 hours.
- Free delivery area includes local area within 30 minute driving distance. No delivery on weekends. Delivery out of local area will be charged up to $30 freight.
- Most components come with over 1 year manufacturer warranty - First year will be covered by UMiracle. Warranty after the first year will be covered by component manufacturers.
- While-you-wait immediate service should there be any neccessary warranty repair. If we couldn't solve the problem, another system will be built (at our discretion, if purchased within 30 days.)
- All pickups, repairs, exchanges, upgrades can be done in either Fremont, Belmont or Albany store. Original invoices & records required.

Hardware Components for your PC Upgrades

Motherboard without CPU: (Call for CPU Prices)

486 UMiracle Green ISA VLB 256K - 3 VLB, upto 128MB & 512KB Cache, Support 30 & 72Pin SIMM, P5 OD suppt, ZIP, Full Deep Green PC EPA compliance - shut off HD, Green Monitor, CPU Slow Down, Award BIOS, PnP, Onbrd 3.3V CPU Suppt	$99
486 UMiracle Green ISA PCI 256K with Enhanced Mode 4 IDE, HiSpd I/O, upto 128MB & 1MB Cache, support 72Pin SIMM, P5 OD suppt, ZIP, Full Deep Green PC EPA compliance - shut off HD, Green Monitor, CPU Slow Down, Award BIOS, PnP, Onbrd 3.3V CPU Suppt	$135
Pentium Intel-Made Zappa PCI 256K Cache with Triton chipset 75/90/100MHz, 3 PCI + 4 ISA slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Mastering PCI-IDE Interface, FD, 2 hi-spd Serials, enhanced Parallel, support 4 IDE HDs, PnP Ready, Flash AMI ROM, APM PowerSaving	$225
Pentium Intel-Made Endeavor PCI 256K Cache with Triton chipset, 75-133MHZ, upto 512K Async/Sync Cache, 4 PCI + 3 ISA slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Mastering Mode 4 PCI-IDE interface, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP Ready, Flash AMI ROM, APM PowerSaving, Built-in Sound Blaster Vibra 16S + Yamaha OPL3LS 16bit stereo sound with line-in/out, Joystick, WaveTable connector, CELP COAST (Cache On a STick) Pipelined Burst Sync Cache socket	[illegible]
Pentium 200MHz PCI 256K Cache w/ Triton chipset, 75-200MHz with Socket 7 and VRM (Voltage Regulator Module) P6-Overdrive support, upto 512K Async/Sync Cache, 4 PCI + 3 ISA slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Mastering Mode 4 PCI-IDE interface, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP Ready, CELP COAST (Cache On A STick) Pipelined Burst Sync Cache socket	$220
ASUS P/I-P55TP4XE Pentium PCI 256K Cache w/ Triton chipset, 75-150MHz with VRM (Voltage Regulator Module) P6-Overdrive support, upto 512K Async/Sync Cache, 3 PCI + 4 ISA + 1 ASUS MediaBus slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Mastering Mode 4 PCI-IDE interface, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP Ready, CELP COAST (Cache On A STick) Pipelined Burst Sync Cache socket	$225
AIR Pentium 586 54CEP 512K - 90/100/120/133Mhz EISA/PCI - 3 PCI/4 EISA (ISA Compatible) slots, ZIF, Intel Mercury chipset, upto to 512MB by 72Pin SIMM, Bus-master, AMI BIOS, 32-bit PCI bus-master SCSI ports using Adaptec AIC 7870 controller (AHA-2940W equivalent) supporting 50Pin Fast SCSI-2 & 68Pin Fast WIDE SCSI-2 onbrd floppy ports supporting 2.88MB, 2-16550 UARTs, ECP/EPP Parallel port, 50pin SCSI cables and complete software driver included	$725
AIR Pentium 586 54CDP Dual 512K Neptune Chipset - 90-133MHz Same as above except supporting 2 CPUs	$885
Pentium P5 - PCI 256K cache - suppt 72Pin SIMM, upto 1MB cache 5 ISA & 3 PCI slots, SIS chipset, with built-in Adaptec SCSI-2 AIC-7870 controller (AHA-2940W equivalent) supporting 50 pin Fast SCSI-2 and 68Pin Fast Wide SCSI-2 onbrd, Enhanced IDE, Floppy port, High Speed 16550 UART serial ports, Enhanced Parallel port, 50 pin SCSI, IDE & Floppy cables & complete software	$455

CPU & Memory: (Prices Subject to Change without notice)

Pentium P5-75/90/100/120/133MHz CPU	$Call
Intel 486-66DX2/100DX4	[illegible]
AMD 486-66DX2/80DX2/100DX4/120DX4 3.3V	[illegible]
8Kx8/32Kx8/64KX8/128Kx8 Cache SRAM	$3/$5/$14/$32
256K Async Cache COAST module	$75
256K Pipelined Burst Synchronous Cache COAST module	$145
512K Pipelined Burst Synchronous Cache COAST module	$Call
1MB DRAM for Video Card (256Kx16-70ns DRAMx2pcs)	$60
2MB VRAM for Video Card (256Kx8-70ns VRAMx8pcs)	$160
4MB RAM SIMMs (1M-70ns 30-Pin SIMMx4pcs)	$Call
16MB RAM SIMMs (4M-70ns 30-Pin SIMMx4pcs)	$Call
72Pin SIMM (4/8/16/32/64MB x32/x36 FastPage/EDO)	$Call

I/O Card/Controller Card/Network Card:

Single/Dual Parallel Printer Card	$8/$15
8 Bit AT I/O 2S/1P/1G	[illegible]
8 Bit AT I/O 2S/1P/1G w/ 2 HiSpd UART 16550's	[illegible]
16 Bit IDE/2FD with 2S/1P/1G	$15
16 Bit IDE/2FD with 2S/1P/1G 2.88MB support, HiSpd 16550 UART's on Serial ports	$40
VLB 32 Bit Enhanced 4-IDE/FD 2S/1P/1G Controller Supporting 4 Mode3 & 4 E-IDE devices	$18
VLB 32 Bit Enhanced 4-IDE/FD 2-16550 UARTs + EPP/ECP Controller Supporting 4 Mode3 & 4 E-IDE devices	$43
Adaptec 2940 PCI Fast PCI SCSI-2 Kit	$190
Adaptec 2940W PCI Fast WIDE SCSI-II, 20MB/s burst, 15 SCSI devices support w/ 50 & 68Pin ribbon cable Cmplete Kit & sftwre.	$235
NCR SCSI-2 53C810 Bus-Mastering PCI Controller	$105
SideGold VLBus Fast SCSI-2, Enhanced-IDE w/ hi-speedI/O Controller - Implement with latest Adaptec SCSI 6360 chip supporting HD > 2GB, up to 10MB/Sec DTR, complete EZ-SCSI Software, support E-IDE HD > 528MB, Mode 3/4 protocol, compatible with ATAPI E-IDE devices. 2 hi-speed 16550 UART serial ports, programmable baud rate generator, bi-directional multi-mode parallel port with ECP/EPP, jumperless design	$135
Side Junior Pro VLBus Enhanced-IDE w/hi-speed I/O Controller with Built-in BIOS supporting 4 Enhanced IDE even if your old VLB motherboard does not support E-IDE, no software driver needed 2x16550UARTs, EPP, jumperless onboard	$55
External SCSI-2 50Pin Micro-D Adapter for any onboard internal 50pin ribbon cable SCSI interface	$2
FAST WIDE SCSI-2 Internal Ribbon Cable, hi-density, 68Pin, 2 connectors / 3 connectors	$35/45
SCSI External Cable Centronic to Micro-D 50Pin 3"	[illegible]
SCSI External Cable Centronic to Micro-D 68Pin 3"	[illegible]
SCSI Cable Micro-D 68Pin to Micro-D 68Pin 6"	$99
SCSI-2 50pin / Micro-D 50Pin / Micro-D 68 Pin External Terminator	[illegible]
Ethernet NE2000 ISA 16Bit Adapter Coaxial/10-Base T/Combo	[illegible]
Ethernet NE2000 PCI Adapter Combo	[illegible]
Intel EtherExpress Pro 10/100BaseT PILA 8465 PCI	[illegible]
3COM Etherlink III 3C595-TX Fast Ethernet 10/100Base T PCI	$222
3COM Etherlink III 3C590-CB Bus-Mastering PCI Combo	$169
3COM Etherlink III 3C590-TPO Bus-Mastering PCI 10BT	[illegible]
3COM Etherlink III 3C509 16bit Coax/10-baseT	[illegible]
3COM Etherlink III 3C509 16bit Combo	[illegible]
3COM Etherlink III 3C579 EISA 32bit 10-baseT/Coaxial	[illegible]

Video Card:

Trident 16Bit ISA 512K/1MB	$35/[illegible]
Trident 9440 Windows Accelerator PCI/VLB 1280x1024, 16.7Million Color 1MB/2MB	$75/135
Diamond Stealth SE S3-732 Chipset 1MB/2MB PCI	$99/159
Diamond Stealth 64 Video DRAM PCI 64Bit Graphic Engine S3-868 2MB DRAM Version	$160
Diamond Stealth 64 Video VRAM PCI 64Bit Graphic Engine S3-968 2MB/4MB VRAM Version	[illegible]
2MB VRAM upgrade board for Stealth 64 Video	[illegible]
ATI Expression PCI 2MB DRAM	[illegible]
ATI Graphic Turbo Pro PCI 2/4MB VRAM	[illegible]
Matrox MGA Millennium 2MB/4MB WRAM PCI	[illegible]
Matrox Impression Lite PCI 2MB VRAM	[illegible]
Matrox Impression Plus PCI 2MB VRAM	[illegible]
Matrox Impression Plus PCI 2MB VRAM 220Hz RAM DAC	[illegible]
2MB VRAM upgrade board for Impression Plus	[illegible]
Number 9 GXE 64 Pro PCI VRAM 2MB/4MB	[illegible]
Number 9 GXE 64 Pro 1600 PCI VRAM 2MB/4MB	[illegible]
Number 9 Imagine 128 4MB PCI	[illegible]
Number 9 Imagine 128 1600 4MB PCI	[illegible]

Monitor:

14" 1Kx768NIx0.28DP Digital Control Green Monitor	$230
15" 1280x1KNIx0.28DP Digital Cointrol Green Monitor	$325
Hitachi NSA SuperScan CM1587M 15" NI, 1280x1024, 0.28DP, FlatScreen, EPA Green, Digital Controlled	$395
MAG DX17F 17" Digital Control 30-64KHz, .26DP, upto 76Hz, 1280x1024NI, Green, MPRII, VESA DPMS, 3yr Warranty	$665
Sony CPD-15SF 15" Trinitron 0.25DP 1280x1K, 3yr Warranty	$487
Sony CPD-17SF 17" Trinitron 0.25DP 1280x1024, 3yr Warranty	$829
IIYAMA VisionMaster MF-8617E 17" FST .26DP, PnP, Microprocessor Contrl, 1280x1024@80Hz, VESA DPMS	$740
IIYAMA VisionMaster MT-9017E 17" Tension Mask , .25DP PnP, 1280x1024@85Hz, VESA DPMS	$740
IIYAMA VisionMaster MF-8221 21" .28DP, Microprocessor Contrl, 1600x1200, 25-85KHz	$1755
IIYAMA VisionMaster MF-9121 21" .30DP, Microprocessor REMOTE Contrl, 1600x1200, 72Hz, Trinitron	[illegible]
Viewsonic 15ES .28DP 1024x768NI 76Hz	$369
Viewsonic 15GS .27DP 1280x1024NI 86Hz TCO'92	$438
Viewsonic 17GS .27DP 1600x1280NI 86Hz Flat	$755
Viewsonic 20G .28DP 1600x1200NI, Digital Control	[illegible]
Viewsonic 20PS .28DP 1600x1200NI Digital Control	[illegible]
Viewsonic 21PS .25DP 1600x1200NI Digtal Control	[illegible]
NEC, ADI, Nanao, Nokia Monitor, etc	$Call

Modem:

Digicom 14.4K Fax/Data Internal 16550 UART	$55
Digicom 28.8K V.34 Fax/Data Internal 16550 UART	$165
Zoltrix 28.8K V.34 Fax/Data Internal 16550 UART	$135
USR Sportster 14.4K Data/Fax Internal/External	$95/115
USR Sportster VI 14.4K Fax Int. w/ Personal Voice Mail	$125
USR Sportster VI 28.8K V.34 Fax, Int. w/ Personal Voice Mail	$225
BOCA Sound Expression 14.4Vsp Sound card + 14.4 Voice/Fax/Modem - all in one	$155

Floppy Drive/Tape Backup:

Mitsumi 1.44M 3.5"	[illegible]
Teac 1.2M 5.25"/1.44M 3.5"	[illegible]
Teac Dual 1.44M & 1.2M Combo	[illegible]
Colorado 350MB DJ35C Backup off floppy QIC-80	[illegible]
Colorado 700MB DJ25 Backup off floppy QIC-30/10W	[illegible]
Colorado 1.3GB DJ50 Backup off floppy QIC30/20	[illegible]
Colorado 800MB T-1000 off floppy Travan QIC-80	[illegible]
Colorado PowerTape PT25 2.0GB SCSI 1/4"	[illegible]
Colorado PowerTape PT50 4.0GB SCSI 1/4"	[illegible]
Tape Cartridges for Colorado Backup	[illegible]

KeyBoard/Mice/Software/Chassis/PS/Misc:

MicroSoft Natural Keyboard	[illegible]
Mitsumi 101 Enhanced Keyboard	[illegible]
KeyTronic 101 Enhanced U.S. Made	[illegible]
Keytronic 101 ProTouch E05105 U.S.Made	[illegible]
Focus 2001 101 Enhanced Click w/Cover	[illegible]
Focus 8000 111 with Calculator	[illegible]
Focus 9000 129 Programmable w/Calculator	[illegible]
NorthGate OmniKey 101NI/102	$74
MS Compatible 3-Button Mouse	$7
MicroSoft Ergonomic Serial Mouse	$35
Logitech First Mouse Serial	[illegible]
Logitech Mouseman Serial	[illegible]
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MS Windows 95 Full Disk Retail/CD-ROM OEM version	$185/13
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Sony CDU-76E Quad Speed ATAPI IDE	[illegible]
Mitsumi FX-400 Quad Speed ATAPI IDE	[illegible]
Panasonic CR-574B Quad Speed ATAPI IDE 600kb/s	[illegible]
Panasonic CR-504B Quad Speed ATAPI SCSI 600kb/s	[illegible]
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NEC 6XI Six Speed 900Kb/S, 256K Cache, 145ms	[illegible]
CD-ROM Caddy	[illegible]

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Sound Blaster 16 SCSI with ASP (Retail)	[illegible]
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2.1GB Fast SCSI-2 CFP2105S	[illegible]
4.3GB Fast SCSI-2 CFP4207F	[illegible]
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850MB E-IDE 7850AV	[illegible]
1.2GB E-IDE 71260A	[illegible]
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1.2GB IDE WD31200A - Enhanced IDE Mode-3	[illegible]
1.6GB IDE WD31600A - Enhanced IDE Mode-4	[illegible]
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1080MB FireBall IDE Fast ATA-2 QM31080FBA	[illegible]
1080MB FireBall Fast SCSI-2 QM31080FBS	[illegible]
2.2GB Capella Fast SCSI-2 VP32210S	[illegible]
2.1GB Altas Fast SCSI-2 XP32150S	[illegible]
Seagate	
1.0GB Hawk ST31230N Fast SCSI-2	[illegible]
2.1GB Hawk ST32430N Fast SCSI-2	[illegible]
4.3GB Hawk ST15230N Fast SCSI-2	[illegible]
2.1GB Barracuda ST32550N Fast SCSI-2 8.5ms 3.5"	[illegible]
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Seagate 4.1GB Barracuda ST15150W Fast Wide SCSI-2	[illegible]
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Fujitsu 2.1GB Fast Wide SCSI-2 512K 10ms M2915QAW	[illegible]

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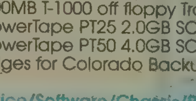

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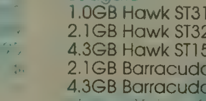

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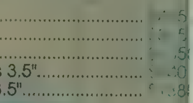

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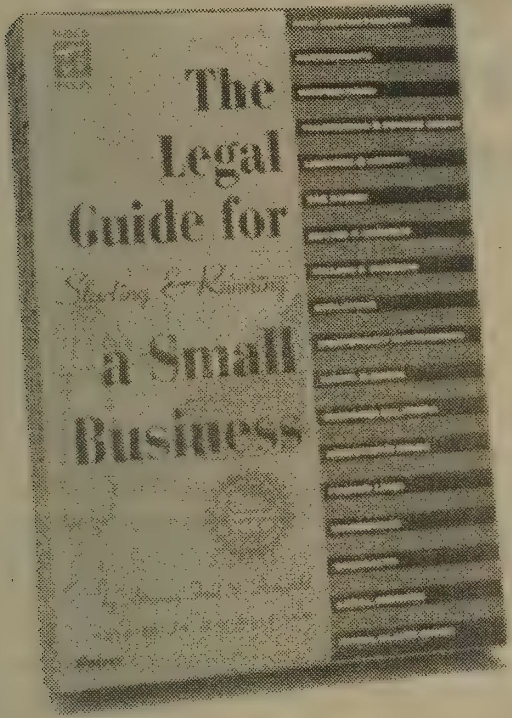
continued from page 80



trol—or can control—not only what is to be done but how it's done, the worker is an employee... The IRS doesn't care what you call the relationship. You can designate someone as a partner, co-adventurer, agent or independent contractor. But if the person really is an employee, the IRS says that is how you must treat the person." There follow two lists—one of fifteen factors that tend to show a person is an employee, and another of nine indicators that someone is an independent contractor.

There are further references at the end of each chapter, in case you want to read more on a topic. There are also legal citations as hypertext footnotes, so you can research a case in depth.

As you read the detailed and clear text, the convolutions of the law begin to make some sort of sense. Or at least as much sense as they are likely to ever make.

This accessibility does not mean you are going to spend your free evenings browsing through the Nolo Guide. It means that you have quick help if you need it, a first approximation of an answer to legal questions when they come up. Unless you have a cousin who is a lawyer, you can save more than the $24.95 cost of the product the very first time you look something up. In fact you could probably buy six copies and still save money. ■

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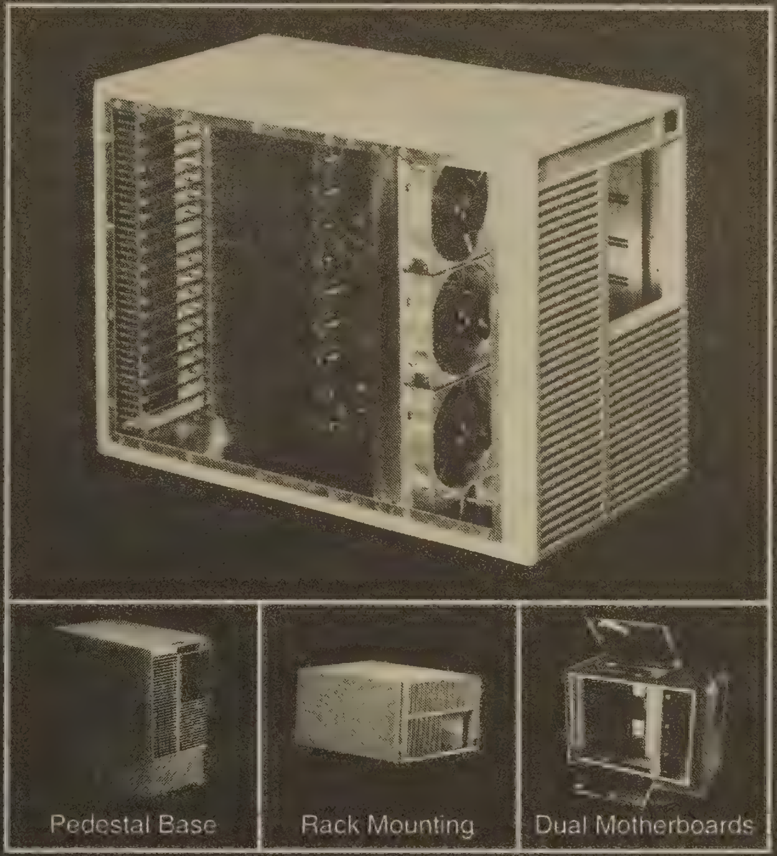

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Tax Resources On The Internet

It May Not Have All The Answers, But The Net Offers A Wide Range Of Tax-Related Resources For Almost Anyone

Tax resources are available on the Internet with a focus for every seeker of tax information: ordinary citizens with questions, government agencies, tax practitioners, publishers, policy makers, tax protesters, international bodies, as well as browsers, cheaters, and just about anyone with an agenda or philosophy regarding the “T” word.

Despite the profusion of sites, only a small fraction of the total will pay off for those with specific needs. And while the quantity of information is rapidly expanding, the adequacy of resources has not yet come into full bloom. Still missing are the core of tax research: court decisions and administrative rulings, as well as analytical services and other vital secondary sources.

If you intend to seriously reference the net for do-it-yourself tax advice and inspiration, you should spend some time browsing and just becoming familiar with how well available sites suit your specific interests. If you find nothing in the hodgepodge to meet your needs, your exploration hours are still well spent. It's just a matter of time until more complete material does become available.

Happy Trails

There are quite a number of World Wide Web sites from which to begin your travels. They are organized in traditional menu structures, with links to the major tax tourist spots. But before going on an in-depth exploration, I recommend first a “quick and dirty” overview of all tax resources out there.

To this end, my WebCrawler (*http://www.webcrawler.com/*) query of the word “tax” turns up 2573 references, which included many other valuable Web sites. Here's a few soundbites representative of the exotica that show up: Welcome To The Flat Tax Home Page!, Utah Tax Commission, Freedom Tax Coalition, Deloitte & Touche Bermuda, M.Y.O.B. Accounting, Taxprep Information Systems, Purple Training Tax Net.

Three other Web sites that offer a place to begin are:

Frank McNeil's TaxSites (*http://www.best.com/~ftmexpat/html/taxsites.html*). This site is well regarded, and may be the single best choice for generalists. There are a large number of well-organized categories, and additions are updated regularly. McNeil's TaxSites is a good choice to save on your “bookmark” or “hotlist,” not only for its comprehensiveness, but also because it links to other pages, providing an efficient launchpad.

> Although many **judicial** resources exist, access to most is **restricted** due to agreements with **court** reporter publishers.

Tom Omer's Tax Information Sites (*http://omer.cba.neu.edu/OtherSites/sendem.html*), another comprehensive place to visit, is the endeavor of Professor Thomas E. Omer of Northeastern University. It tends to focus on academic and technical resources, unlike McNeil's, and it also links to sites that everyone seems to be chatting about. If you're interested in a quick overview of technical resources, Professor Omer provides a brief description of most of the linked sites.

Don't forget Yahoo. In some ways Yahoo is similar to WebCrawler. It maintains a current and well-organized hierarchical structure of Internet sites, making it one of the most popular URLs on the net. One of its categories is economics, from which you can link to a subcategory for taxes (*http://www.yahoo.com/Economy/Taxes*).

Yahoo lacks the editorial purposes or agendas that drive the sponsors of sites mentioned above, so your tour will be more self-directed and may suffer inefficiency. It's more organized than a random word search but less so than a dedicated tax Web page.

Mixed News

The most popular Usenet newsgroup for chatting about taxes is misc.taxes .

Michael Gross, Esq., author of *Pocket Tour of Law on the Internet* (Sybex, 1995), visits this site periodically to toss in his two cents. According to Gross, the quality of discourse at this newsgroup goes through its ups and downs, so don't judge it on a single impression.

As of this writing, misc.taxes seems to be in the down mode. Many of the subscribers appear uninformed, not only about taxes but arithmetic as well. Gross claims that the quality was much better just a few months ago, and that tax professionals visit the site regularly.

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ers hang out, kvetch about how bad CD-ROM tax services are, and dole out tax advice to passersby much as we toss smelt to the birds on Lake Merritt.

Misc.taxes visitors will find everything from the subtle to the evasive. I found advice of both the sound and lousy varieties, more or less equally distributed. The usual transparent schemes, like setting up out-of-state service corporations, were predictably well represented, as were tax protest strategies that are almost doomed to fail. A good portion of postings are from citizens with all-encompassing philosophies about man and tax and law. Picture UC Berkeley's Sproul Plaza, but if Reagan had closed down the big-eight accounting firms at the same time that he closed the state mental hospitals.

RESOURCES:

Pocket Tour of Law on the Internet
Michael Gross, Attorney
Sybex

George Berns, Attorney
Oakland, California

Anyone with a thought about taxes can find a forum to air it at misc.taxes .

Elusive Federal And State Tax Law

If your goal is to do hardcore tax research on the net, you will be deeply disappointed. Too much is simply missing. Although many judicial resources exist, access to most is restricted due to agreements with court reporter publishers.

All citizens are presumed to know the law, but that doesn't mean they're entitled to free and convenient access to it. According to George Berns, an Oakland attorney, "There is a controversy. It's outrageous that the state franchises your right to see a court decision by granting exclusive contracts. On the other hand, legal publishers provide a valuable service with their bound and easily accessible court opinions."

You can now download Supreme Court cases from the net, as well as appellate decisions for the Third and Eleventh Circuits, but not others. Ninth Circuit decisions (California) are unavailable. Neither will you find California state court decisions. However, federal district court decisions may become available soon.

Access to the United States Code, including the Internal Revenue Code, is readily available and linked by many of the sites mentioned here. One site, U.S. Tax Code On-Line, is a well-designed front end to the United States Internal Revenue Code, created by John W. Kelvin (*kelvin@fourmilab.ch*).

You can also access tax regulations from the Code of Federal Regulations (*http://www.pls.com:8001/his/cfr.htm*). These Regulations are the central body of administrative tax law. By using its search tools, you can access provisions by citing them (i.e., providing

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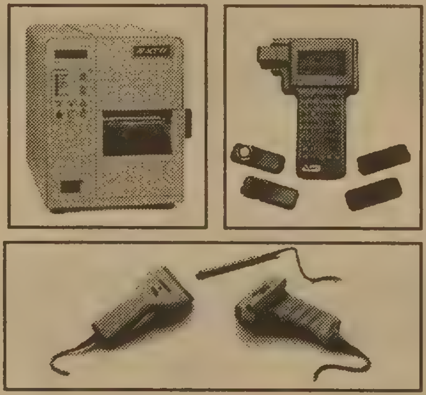

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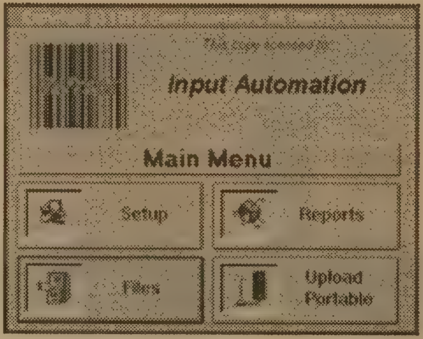

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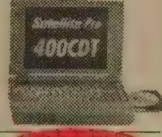

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T4700	486DX2/50	9.5" Dual Scan	320MB	2798
T4800	486DX4/75	9.5" Active	500MB	3098
T4850	486DX4/75	10.4" Active	500MB	3248
T4850	486DX4/75	10.4"" Active	722MB	3448

Portege T610/T3600/T3400

Award-Winning Subnote

- Ultra-portability at only 4.4 lbs
- 8MB RAM expanbdable to 24MB
- PCMCIA Type II Slot
- Intergrated Accutpoint Pointing device

Processor	Screen	Hard Drive	Price
Pentium 90	9.5" Advice	720MB	$4448
486DX2/50	8.4" Active	500MB	3198
486SX/33	7.8" Active	120MB	1698

Satellite Notebooks & Satellite Pro Series
Performance at an Outstanding Price

- Built-in AC adapter (T2100 series)
- 1 Type II or Type III PCMCIA slot (T2400 series)
- 2 TYpe II and Type III PCMCIA sot (T2100 series)
- 82-key key
- Accupoint pointing device

Model	Processor	Screen	Hard Drive	Price
T2100	486DX2/50	9.5" Mono	250MB	$1198
T2110	486DX4/75	10.4" Dual Scan	350MB	1998
T2110	486DX4/75	10.4" Active	350MB	2398
T2130	486DX4/75	10.4" Active	500MB	2998
T2130	486DX4/75	10.4" Dual Scan	500MB	2398
Pro Series				
T2400	486DX2/50	9.5" Dual Scan	320MB	2148
T2400	486DX2/50	8.4" Active	320MB	2698
T2450CT	486DX4/75	9.5" Active	320MB	3098
T2450CT	486DX4/75	9.5" Active	500MB	3198

AST "You Can't Beat Its Value"
AST Ascentia 910N

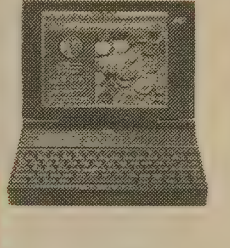
AST AUTHORIZED DEALER

- 10.4" Active &10.3" Dual Scan Displays
- NEW! Lithium Ion Battery for extra long life
- PanVision graphic for up to 1024x768 resolution
- 2 Type II or 1 Type III PCMCIA slot

Model	Screen	Hard Drive	Price
486DX2/50	10.3" Dual Scan	340MB	$2398
486DX4/75	10.3" Dual Scan	510MB	2598
486DX4/75	10.4" Active	510MB	3548
486DX4/75	10.4" Active	700MB	3798

AST Ascentia 950N

- LARGE 10.4" Dual Scan & TFT Displays
- 8MB RAM Standard
- Removable HD and Floppy Drive
- 2 Type II or 1 Type III PCMCIA slot



Processor	Screen	Hard Drive	Price
Pentium™75	10.4" Dual Scan	500MB	$5128
Pentium™75	10.4" Dual Scan	800MB	$5498
Pentium™75	10.4" Dual Scan	1.2GB	$5968
Pentium™75	10.4" Active	800MB	$4598
Pentium™75	10.4" Active	1.2GB	$4998

TOSHIBA FACTORY REFURBISHED & DISCOUNTINUED MACHINES

T3400CT/250	$1598	T3600CT/250	$2498	T3600CT/500	$2798
T3400/120	$998	T1910/200	$998	T1910CS/200	$1398
T4800CT/500	$2798	T4900CT/800	$4398	T1950CS/200	$1798
T1950CT/200	$1998	T4600CT/320	$2398	T1960CS/200	$1598
T6400SXC/120	$CALL	T6400DX2C/200	$CALL	T6400MMC/200	$CALL

NEC
Versa P - Lowest Priced Pentium

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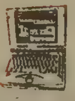
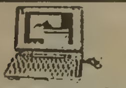
HP OmniBook NoteBook PCs 4000 Series

Desktop to-go-PCs



Processor	Screen	Hard Drive	Price
486DX2/50	10.3" Dual Scan	260MB	$2298
486DX2/50	10.3" Dual Scan	340MB	2448
486DX2/50	10.3" Dual Scan	520MB	2798
486DX2/50	10.4" Active	340MB	2648
486DX2/50	10.4" Active	520MB	2848
486DX4/100	10.3 Dual Scan	340MB	2878
486DX4/100	10.3 Dual Scan	520MB	3098
486DX4/100	10.4" Active	340MB	-3278
486DX4/100	10.4" Active	520MB	3478



HP OmniBook NoteBook PCs 600 Series
Lightweight with Performance

Processor	Screen	Hard Drive	Price
486DX2/50	8.5" Dual Scan	170MB	$2298
486DX2/50	8.5" Dual Scan	260MB	$2448
486DX4/75	8.5" Dual Scan	170MB	$2748
486DX4/75	8.5" Dual Scan	260MB	$2928

HP LaserJet Printers

HP LaserJet 4L	$498.00
HP LaserJet 5P	$848.00
HP LaserJet 5MP	$998.00

HP Scanners

HP ScanJet3C, Color	$948.00
HP ScanJet3P, Greyscale	$448.00
HP DeskJet 1600C	$1298.00

HP InkJet Printers

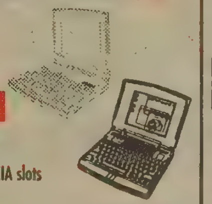
HP DeskJet 320	$298.00
HP DeskJet 320 w/Sheet Feeder	$358.00
HP DeskJet 850C	$548.00
HP DeskJet 660C	$478.00
HP DeskJet 1600C	$1298.00
HP DeskWriter 320	$288.00
HP DeskWriter 320 w/Sheet Feeder	$358.00
HP DeskJet 850C	$548.00
HP DeskWriter 660C	$478.00
HP DeskJet 1600CM	$1898.00
HP OfficeJet	$688.00
HP Fax 700	$578.00

Texas Instruments
Pentium Power With PCI Bus

TravelMate 5000

- PCI bus Architecture to optimize Pentium processor performance
- 2MB Video RAM
- 16-Bit Sound, speaker, microphone & MIDI

Processor	Screen	HardDrive	Price
Pentium74MHz	10.5" Dual Scan	500MB	$3848
Pentium 75MHz	10.4" Active	772MB	$4598



TravelMate 4000M

- Brilliant color display
- 2 Type II or 1 Type III PCMCIA slots
- 16-Bit Sound card

Processor	Screen	Hard Drive	Price
486DX2/50	9.5" Dual Scan	340MB	$1998
486DX2/50	8.4" Active	455MB	2198
486DX4/75	9.5" Dual Scan	455MB	2198
486DX4/75	8.4" Active	340MB	2198
486DX4/75	8.4" Active	455MB	2448
486DX4/100	9.5" Active	525MB	3248

Versa P

Lowest Priced Pentium Notebook

2 Type II or 1 Type III PCMCIA slot
Removeablel HD, Floppy, & Screen
Integrated speaker & microphone

Processor	Screen	Hard Drive	Price
Pentium 75	9.5" Active	340MB	$3998
Pentium 75	9.5" Active	540MB	$4298
Pentium 75	9.5" High Res.	540MB	$4448
Pentium 75	9.5" Active	540MB	$4298
Pentium 75	9.5" High Res.	810MB	$4798

Versa M

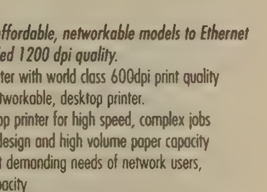
Highest Resolution & True Color Display

2 Type II or 1 Type III PCMCIA slot
Removeable HD, Floppy, & Screen
Integrated speaker & microphone

Processor	Screen	Hard Drive	Price
486DX4/75	9.5" Dual Scan	340MB	$2298
486DX4/75	9.5" Active	540MB	$2998
486DX4/75	9.5" High Res.	540MB	$3198
486DX4/100	9.5" True Color	540MB	$3398
486DX4/100	9.5" Active	810MB	$3998
486DX4/100	9.5" High Res.	810MB	$4248

NEC Versa V

"V" for Value



Processor	Std/Max RAM	Screen	Hard Drive	Price
486DX2/50	4MB/20MB	9.5" Dual Scan	250MB	$2198
486DX2/50	4MB/20MB	9.5" Dual Scan	340MB	$2348
486DX2/50	4MB/20MB	9.5" Active	250MB	$2348
486DX2/50	4MB/20MB	9.5" Active	340MB	$2548
486DX2/50	4MB/20MB	9.5" Active	540MB	$2848
486DX4/75	4MB/20MB	9.5" Active	340MB	$2748
486DX4/75	4MB/20MB	9.5" Active	540MB	$3048

ZENITH data systems

Product Highlights

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Upgrade any notebook with full multimedia capabilities in one easy step.
PCMCIA Type II interface. Compatible with most notebook computers on the market today. Plug it into any PCMCIA Type II slot and add full multimedia to your notebook
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Data System Z-PLAYER

The best portable sound/CD solution

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Desktop interface now available.

ZENITH data systems

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486DX4/100	8/700 TFT	$3898

Z-STAR EX

486DX2/50	4/250 Mono	$1098

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- ✤ Optra Lxi - Ethernet ready version of the Optra Lx with highest paper capacity

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Optra R 12ppm, @ 600 dpi, 2MB max 64MB, PSL2 2 PCL5, 87 fonts 404912 $1448

Optra Rx 16ppm, @ 600 dpi, 4MB max 64MB, PSL2 2 PCL5, 87 fonts 404916R $1998

Optra L 12ppm @ 600dpi, 4MB max 64MB, PSL2 e PCL5, 87 fonts 40912L $1898

Optra Lx 16ppm, @ 600 dpi, 4MB max 64MB, PSL2 2 PCL5, 87 fonts 404916L $2448

Optra Lxi 12ppm, @ 600 dpi, 4MB max 64MB, PSL2 2 PCL5, 87 fonts 404916E $2998

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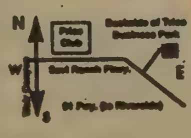

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the regulation section) or by performing word searches.

Professional tax publications can be very expensive in real life, and the only free access to most are public law libraries. There are several law libraries on the Internet, both in the United States and abroad. Examples include Cornell Law School and Chicago-Kent. University of Iowa maintains some tax resources on the net, as well as providing links to governmental and commercial tax sites (*http://www.biz.uiowa.edu/acct/tax.html*). They are worth a visit, but here, too, access of certain materials is highly restricted.

Legal search services, which charge high per-minute fees for their proprietary online service, are represented. I found a URL for LEXIS (*http://www.lexis-nexis.com*); to no surprise, the site offers mostly just advertising. The real stuff will still cost you.

Examples of the type of legal resources that are readily available include Federal Rules of Civil Procedure, California Rules of Civil Procedure, and the Federal Rules of Evidence. They aren't annotated, and do not pretend to be user-friendly.

For those with further interest in the realm of law, tax and otherwise, I recommend Gross's *A Pocket Tour of Law on the Internet*, scheduled for release this month. It's not intended as a comprehensive review of everything legal, but it's a useful discussion of good sites with legal information for professionals as well as the general public.

Fun With Government

Taxing authorities are setting up home pages like they were going out of style. A good access point is the House of Representatives Internet Law Library (*http://www.pls.com:8001/*). One of its features is links to state tax agencies. Click on the state of choice and see their tax stuff.

Full-text versions of all House and Senate bills and the Congressional Record for the last four sessions of Congress can be searched at this site, too. Detailed legislative information is also provided.

The Internal Revenue Service site (*http://www.ustreas.gov/treasury/bureaus/irs/irs.html*) is one of many maintained by the Treasury. Uncle Sam, an arts benefactor, understands and appreciates the importance of .gif files. No naked persons yet, but you won't be disappointed graphics-wise.

You want tax forms? No problem. You can download forms, instructions, and publications in different file formats. Formats include PCL, PDF, or PostScript. PDF downloads are better reproductions than PCL. A free Adobe Acrobat reader can be easily downloaded at the IRS home page, to encourage you to take advantage of PDF files.

The IRS also maintains a Help Desk on the World Wide Web. The function of the Help Desk is to explain how to obtain computerized forms, and to suggest formats most suitable for

continued on page 214

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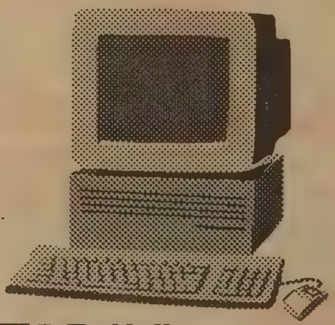

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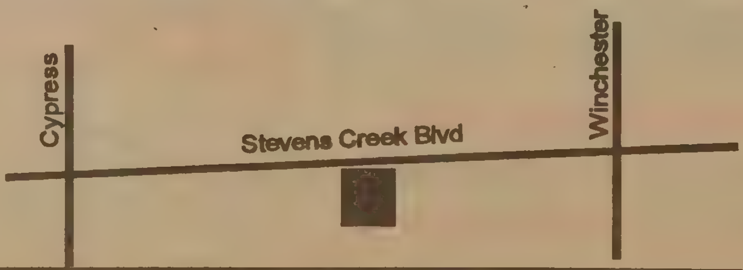

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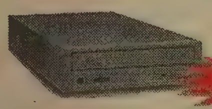

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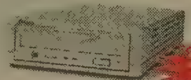

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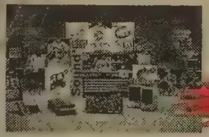

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Accura 28.8 V.34 Fast	External	$229.99

USRobotics Sportster Si 14.4

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- 28.8 Data/14.4 fax

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14.4 Sportster Si 14.4	External	[illegible]
Sportster 14.4 V.32/V.42	Internal	[illegible]
Sportster 14.4 V.32/V.42	External	[illegible]
Courier 28.8 V.34	Internal	[illegible]
Courier 28.8 V.34	External	[illegible]
Sportster 14.4 PCMCIA	Internal	[illegible]
Sportster 28.8 PCMCIA	Internal	[illegible]
Mac® & Fax 14.4 bps External Modem for Mac®		[illegible]
Mac® & Fax 28.8 V.34 External Modem for Mac®		[illegible]

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DTC 2278E	VLIDE Controller w/16550ports	[illegible]
Promise Technologies		
2300+	VLEIDE	$49.99

VIDEO CARDS

Model	Description	Your Price
Diamond Multimedia		
STEALTH SE	1 MB VLB	[illegible]
STEALTH SE	1 MB PCI	[illegible]
STEALTH 64	1 MB VLB DRAM	[illegible]
STEALTH 64	1 MB PCI DRAM	[illegible]
STEALTH 64	2 MB VLB DRAM	[illegible]
STEALTH 64	2 MB PCI DRAM	[illegible]
Number Nine		
9GXe 64	1 MB VLB	[illegible]
9GXe 64	1 MB PCI	[illegible]
9GXe 64	2 MB VLB	[illegible]
9GXe 64	2 MB PCI	[illegible]

NETWORK CARD

Model	Description	Your Price
3Com		
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- 260 HD
- 2 PCMCIA slots(2 TypeII or 1 Type III)
- 8.5" Dual Scan Color
- External 1.44 floppy drive
- Weigh 3.8 lbs
- 3 Years Warranty

HP Omnibook 600C
8/260
$2999.99

Part#	Description	RAM HD	Display	Your Price
600C				
F1065A	50MHz IntelDX2™	4MB/170HD	8.5"Dual Scan	$2399.99
F1110A	50MHz IntelDX2™	4MB/260HD	8.5"Dual Scan	$2799.99
F1066A	75MHz IntelDX4™	8MB/170HD	8.5"Dual Scan	$2799.99
F1114A	75MHz IntelDX4™	8MB/260HD	8.5"Active Color	$CALL

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HP OMNIBOOK 4000CT

- 100 MHz IntelDX4™ Processor
- 8 MB RAM expandable to 32 MB
- 810 HD
- 2 PCMCIA slots(2 TypeII or 1 Type III)
- 10.4" Active Color
- 16 bit Sound Blaster
- Trackball
- 2 stereo speakers
- 3 Years Warranty

HP Omnibook 4000CT
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Part#	Description	RAM HD	Display	Your Price
4000C				
F1067A	100MHz IntelDX4™	8MB/520HD	10.3"Dual Scan	$2699.99
F1096A	100MHz IntelDX4™	8MB/810HD	10.3"Dual Scan	$3049.99
4000CT				
F1089A	100MHz IntelDX4™	8MB/520HD	10.4"Active Color	$3999.99
F1159A	100MHz IntelDX4™	8MB/810HD	10.4"Active Color	$3449.99
5000C				
F1130A	90MHz Pentium®	8MB/1000HD	10.4"Dual Scan	$CALL
F1131A	90MHz Pentium®	16MB/1000HD	10.4"Active Color	$CALL

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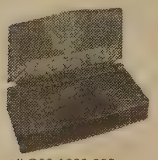

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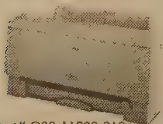

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- Printing speeds rival 4 ppm laser
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- EPA "Energy Star" compliant

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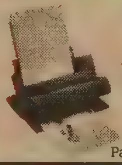

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- 600 x 300 dpi black/300 dpi color
- 48 KB memory
- Color Kit Upgradeable
- Battery Optional
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w/feeder
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Part#	Description	Resolution	PPM	Your Price
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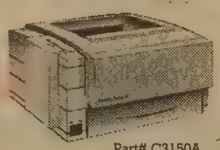

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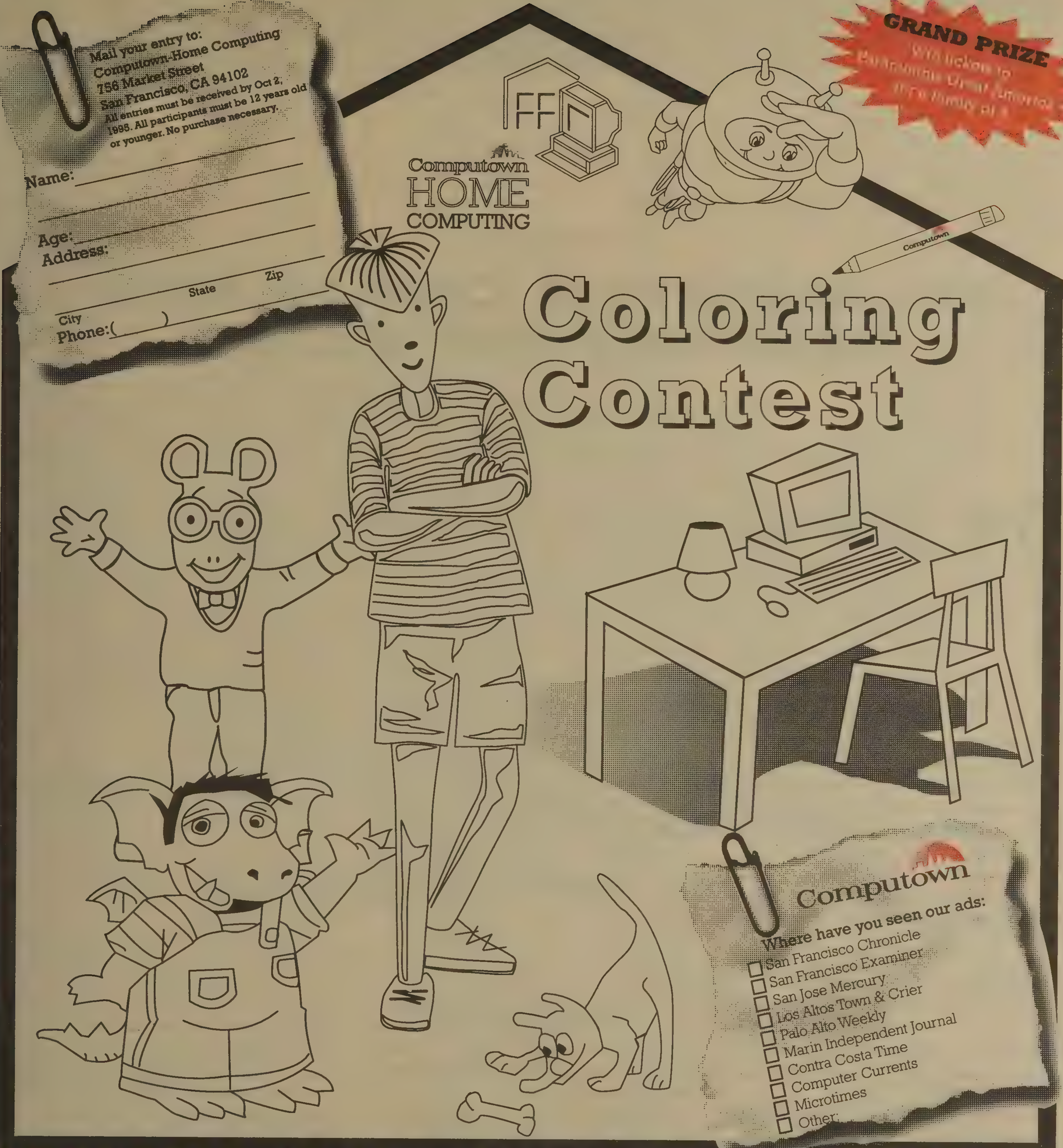

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Illuminated Colors And Clairvoyant Gurus

Thoughts On Color Calibration

The gurus needed a break. It had been a hard, fractious morning. Some had fussed over the Windows 95 installation and the failure of some mysterious driver to load. Some had fretted over the modified Babylonian Algorithm. And everyone had noted an article in the Business section of the *New York Times* describing Web pages in memory of Jerry Garcia. We *are* everywhere, they thought, and that is no consolation at all.

Hunkering down over scones and cappuccinos at Jimmy Bean's, they resolved, in the silent way that gurus do, to concern themselves with something else entirely. "What about the UNIX color printing problem?" asked Baba Knosebest telepathically.

All eyes turned toward Knosebest. "What color printing problem?" someone thought derisively.

"No one can afford a color printer," someone else carped silently. "That's the problem!"

Knosebest fixed this wag with a stare and thought, "Color printers are getting cheaper all the time, and that, in fact, along with the proliferation of color monitors, is exactly the problem.

"You know, we traipse all over the World Wide Web collecting interesting graphics. They're absolutely startling on the screen, but when you try to print them, something doesn't work exactly right. Right?"

"Okay, yes," the wag admitted in his heart of hearts.

A Short Enlightenment On Color

"Unfortunately for us all," Knosebest thought, warming to his subject, "color is a very tricky thing. It's subjective, a matter of perception, the effect of light on the eye and the brain. Your eyes have receptors for certain wavelengths of light that the brain turns into colors. You could say that color perception is 'device dependent.'

"Just as color perception depends on your eyes and brain, color production is also device dependent. Think about oil paints, for example. When you mix oil paints of two different colors together, the mixture seems to reflect light differently from either of the starting colors. In essence, the mixture produces a third color by adding qualities of the two colors you started with. You could say the new color is produced 'additively.'

"Everyone learns pretty early about primary colors and how to mix them. We've all been taught that red, yellow, and blue are the primary colors, but this isn't exactly so.

"Red, *green*, and blue serve as the primary colors for producing colors additively. The primary colors are the basics from which the widest range of colors can be created. Red, green, and blue basically define three dimensions of a 'color space' containing all the colors that can be produced by combining those three colors in different proportions.

"Reflection or 'addition' isn't the whole story about how colors are produced, however. Some paints, like watercolors, are translucent, and when translucent paints are combined, new shades of color are produced because the combined paints absorb or filter out some wavelengths of light.

"You could say that watercolors and other similar media produce new colors 'subtractively.' For media that produce subtractive color, the primary colors are slightly different: cyan, magenta, and yellow. As with additive color, these primary colors represent three dimensions of a color space." Pleased with this train of thought, Knosebest paused.

"For goodness' sake, this is hardly news," another guru opined wordlessly. "I learned this in high school physics. There's even a standards organization for this sort of thing, the International Commission on Illumination (Commission Internationale d'Eclairage, CIE), which adopted a standard for describing three-dimensional color spaces in 1931. The CIE standard (called CIE XYZ) specified a color space relative to the eyes of a Standard Observer. Human, I might add."

"Of course, of course," Knosebest tried to reclaim the high ground. "The interesting thing is that all this stuff about additive and subtractive colors and about color spaces extends to computer peripherals.

"Remember, monitors are 'RGB' devices. They produce colors additively, typically by stimulating phosphors (Don't ask!) that emit red, green, or blue light. Any color that a monitor is capable of can be described by coordinates in an RGB color space.

"A color printer, on the other hand, produces colors subtractively by overlaying dyes or inks to filter some light wavelengths. The basic ink colors used to do this are cyan, magenta, yellow, and sometimes black. You could say that printers are CMY (or CMYK) devices and the colors they produce can be represented in a CMY color space."

"Really," one of the younger gurus intervened, "all this stuff about colors in three dimensions is giving me a headache."

"Egad," another mocked, "I think I'm having a flashback!"

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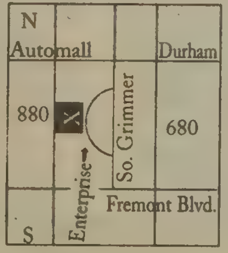

"As if you had anything to flashback to," a third grumbled in silence.

"Lest you miss the point," Knosebest thought sternly, "mapping the colors that a device can produce into a 3-D color space is a very useful thing. It provides a relatively simple programming interface for a device's color capabilities.

"Given adequate information about the device, you can select any color in a device's color space using the three numbers that are its coordinates."

"Oh. I see. You're talking about device calibration: you could use the color space idea to program a color printer to produce the colors you want."

A Better Path, A New Pitfall

"Only, isn't that kind of complicated?" These words were actually spoken aloud by a busboy wiping away crumbs and collecting dishes at the next table. The sound startled them all.

"Depends," Knosebest said. "It would be a real pain if you had to write a C program every time you wanted to tweak the color on a graphic. What you really want is software that provides a convenient interface to program the way the printer handles colors."

"There's a commercial program called Easycopy/X (from AutoGraph International) that offers a lot of image printing control for UNIX systems," volunteered the busboy. "In addition to drivers for printers of all sorts, Easycopy/X provides a Motif-based interface for manipulating color images. It uses the CIE LUV color space which is based on CIE/XYZ and is suited for managing subtle differences between colors.

"Managing image printing is more than just calibrating the printer, so Easycopy includes general facilities for screen capture and for reading and converting a range of graphics formats. It works with the UNIX print spooler and allows the business of image processing to be distributed around a network.

"Easycopy/X runs on a wide range of UNIX hosts: Silicon Graphics, Sun, IBM, HP, and various offerings from Digital. Hopefully they're working on a Linux port, too."

"!!!" the gurus thought in unison.

The busboy continued, "Having a way to calibrate printers is cool because you can get what you want from the printer. But isn't there a bigger problem?

"After all, the RGB and CMY color spaces aren't the same: the range of colors that can be produced additively with red, green, and blue doesn't exactly match the range of colors that can be produced subtractively with cyan, magenta, yellow, and black.

"To make matters worse, the relationship between the two color spaces isn't exactly straightforward. In the RGB color space, all the coordinates are positive numbers. In the CMY color space, coordinates can be negative. The bottom line is that you may not be able to move easily from one color space to another.

"And consequently, even if you can control the

continued on page 212

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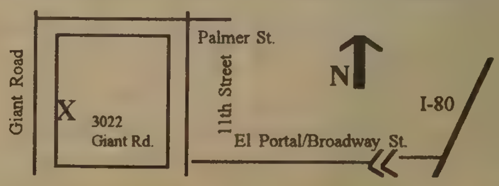

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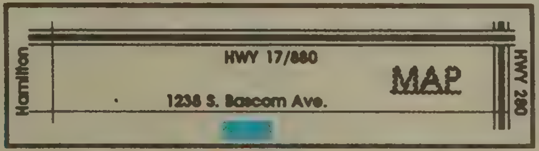

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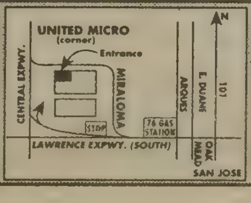

OS/2 • BY FABIAN PASCAL

Solutions vs. Workarounds

Wandering In The Wilderness

I've been working on several projects, hoping to write about them in this and forthcoming columns.

One is the saga of upgrading my system, particularly the motherboard. I did switch from the Intel Zappa board that I described in a previous column to another, but my unit had a defect and I had to have it replaced (validating my advice to stick to local vendors if possible). I've also started to get frequent OS/2 system crashes and file corruption, but it's not yet entirely clear what causes them. The second unit has not resolved this problem.

In February last year I published a column ("An OS/2 Reality Check, Part 2") on scanning under OS/2. More than a year later, Hewlett-Packard has released a new ScanJet model, the 3C, so I wondered if OS/2 support, in hardware and software terms, has improved. Having gotten a review unit from HP (as well as a Fujitsu ScanPartner, claimed as supported by one application), I've been testing several OS/2 scanning applications which are now available, but ran into rather serious problems. It may have something to do with my system, but I am still waiting for the developers to get back to me.

I've also been working on OS/2 PC Card (formerly PCMCIA) support for quite a while and, in fact, wrote some introductory comments in my January column about it, when support was still weak. After checking with several vendors of desktop PC Card socket drives, I found one who offered support—albeit, with some qualifications—for OS/2 and got a review unit. Other vendors provided hard disk and faxmodem cards. Yet despite the considerable, repeated efforts invested in trying to make things work under OS/2 (including a long visit by the vendor's technical representative to my office), we have not yet succeeded (even though the operation under DOS was smooth).

What is particularly worrisome about these problems is not just that they occur—this is rather common in the industry and not peculiar to OS/2. The true problem is that if and when they do occur, it is extremely difficult and frustrating for the average individual PC user to even identify their causes, let alone obtain solutions. Claims to the contrary notwithstanding, both my personal experience and my interactions with clients, reader's, and vendors support this position firmly. Note that this does not mean that this is true in each and every case, but it is, nevertheless, quite common (see sidebar).

The Tale Of The CD-ROM Installation

Be that as it may, as I waited for some of the projects to reach points where I can write about solutions, not just problems, I came across a case where a solution was—seemingly—provided. At the same time, the situation also raises questions regarding OS/2 support. I will leave it to the reader to form a perspective on this subject, but it's a rather common occurrence in the OS/2 world.

At issue is installing Warp on a notebook from CD-ROM, an obvious and rather basic user need. In my June column (written, due to the constraints of print, in May), I wrote the following: "So, how do you connect a notebook to a CD-ROM drive?...[one] option is a PCMCIA-to-SCSI card, which plugs into a notebook's PCMCIA slot and connects to any SCSI device with a cable, acting like a SCSI controller. For example, QLogic's Fast!PCMCIA-10 does just that and there is even a beta OS/2 driver to boot...well, booting is actually a problem. You can use the card to access a SCSI drive from a notebook *running* OS/2, but you won't be able to *install* OS/2 from CD-ROM, because Warp does not support PCMCIA at bootup and, thus, it does not recognize the CD-ROM drive through a PCMCIA card."

The background of this statement is as follows. I got a review unit of the Fast!PCMCIA-10 card from QLogic. I had a Cypress notebook computer (which I reviewed in that column) and a Chinon 535 external CD-ROM drive that I use with my desktop. I had information, received much earlier from an internal IBM source (and validated by my own experience and others), that OS/2's design, *since version 1.x*, did not allow it to boot from removable drives (except if they can be "fixed," as in the case of Bernoullis). This ruled out booting from a CD-ROM or PC Card drive.

Nevertheless, I made several installation attempts (using an OS/2 driver downloaded from the QLogic BBS) and they indeed failed. QLogic contacted IBM and informed me that, indeed, installing Warp that way was "not supported" (see below). Since that confirmed what I already knew, I expressed it in the paragraph above.

Having recently purchased an IBM ThinkPad 500 notebook, I've been frequenting the THINKPAD forum on CompuServe, where there are various exchanges on OS/2. There, some users, who could not install Warp from CD-ROM either, asked for help. I sometimes gave them the information I had—that it was not possible. Nobody claimed otherwise, including the forum's IBM support staff.

Then, on July 31, somebody posted a message that he found a way to install Warp FullPack on a ThinkPad 755CE from an NEC Intersect 84 2x CD-ROM drive using an Adaptec

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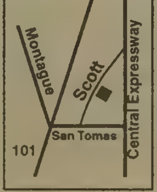

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OS/2 *continued...*

SlimSCSI 1460 card. He provided detailed instructions in a file which he uploaded to the forum's library and which I downloaded and reviewed.

The process involves, mainly:

1. Preparing diskettes for the installation by making copies of the two distribution diskettes that come with the CD-ROM Warp FullPack, deleting unnecessary drivers from them, adding specific ones (mainly IBM PC Card) from the CD-ROM, and modifying CONFIG.SYS files accordingly (this must be done, of course, on another machine already running Warp).

2. Downloading a driver for the SlimSCS 1460 card from the Adaptec BBS, copying to th #1 diskette, and revising the CONFIG.SYS file o it accordingly.

3. In case the original partitioning of th ThinkPad was, or is being altered, formattin the installable partition in the "long" forma not the "quick" one which Warp uses by defaul (needs to be done from the command line, t which you must exit at some point).

4. At end of Warp installation, replace th Adaptec default driver installed by Warp on th hard drive with the BBS SlimSCSI driver.

The file's author presents himself as a very experienced OS/2 user and programmer, IBM-designated "OS/2 Advisor" on CompuServe. Even so, he admits that it took him considerable experimentation by trial and error (some five installations) to work the procedure out and validate it.

When microprinted four-up in booklet form, the instructions file yields fifteen logical pages on four one-sided regular size-paper pages. Granting that the author made an effort to provide very thoroughly detailed, step-by-step instructions and that some of the space is taken by listings of directory contents of the diskettes required for the installation, the entire procedure requires a considerable amount of knowledge and effort. It is not difficult to follow the instructions, but they are somewhat tedious (in my opinion, it would take at least two to three hours from downloading the instructions to completing the installation, for the specific configuration in the file).

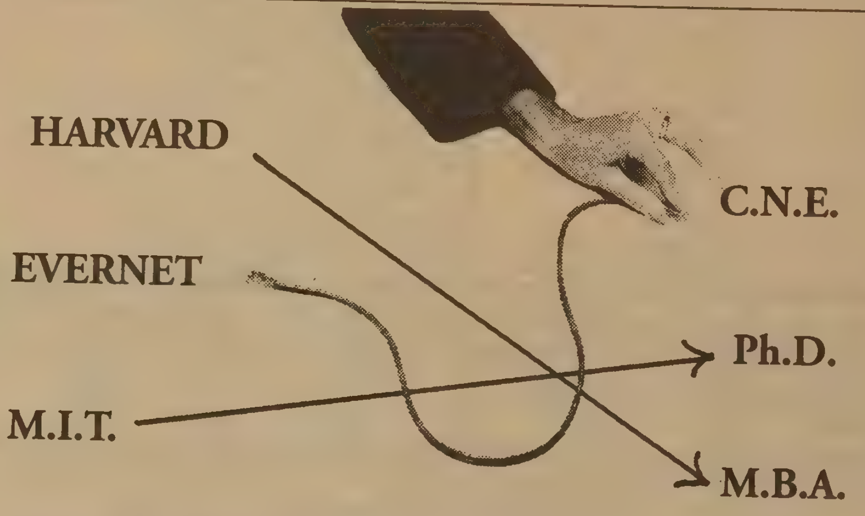
Moreover, while the author expresses hope that the procedure can be modified to work with other configurations (Warp for Windows, other CD-ROMs, adapters other than the SlimSCSI, other ThinkPad and notebook models, he correctly certifies the procedure only for the specific products mentioned. My experience with such variations, however, suggests that success is not guaranteed. As of this writing the empirical evidence is mixed: one user reported success, another failure (using ThinkPad 755s, and SlimSCSI adapters!).

So, on the one hand, at least a potential solution was suggested and I am still prepared to test and document it in my column (stay tuned).

But, on the other hand, the following points are also in order:

I did research the issue, relying not just on

continued on page 326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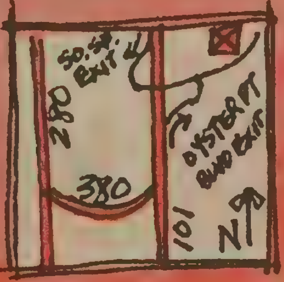

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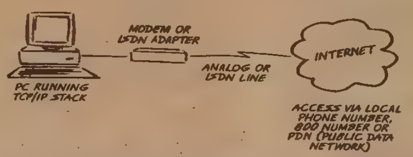
Internet Access Solutions Over ISDN

PERSONAL INTERNET ACCESS


MODEM OR ISDN ADAPTER
INTERNET
PC RUNNING TCP/IP STACK
ANALOG OR ISDN LINE
ACCESS VIA LOCAL PHONE NUMBER, 800 NUMBER OR PDN (PUBLIC DATA NETWORK)

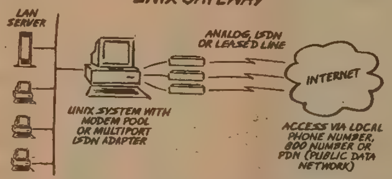
At home, the easiest way to connect with the Internet is through an on-line service such as CompuServe, Delphi or Prodigy. All you need is a PC, a modem, and communications software such as Carbon Copy or ProComm. The Internet provider takes care of everything else for a monthly fee plus a per-minute usage charge.

Another option is to use a service such as PSI's InterRamp which provides you with an actual IP address on the Internet. For this option, you need to run an IP protocol stack on your PC along with some type of Internet access package. There are packages available today that offer both TCP/IP and Internet access in a single package. Or, if you are technically adept, free "shareware" can be downloaded from the Internet.

LAN InterNet Access

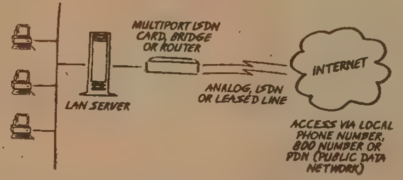
Many companies today are choosing to provide all network members with Internet access. Following are two options for linking LANs to the Internet.

UNIX GATEWAY


LAN SERVER
ANALOG, ISDN OR LEASED LINE
INTERNET
UNIX SYSTEM WITH MODEM POOL OR MULTIPORT ISDN ADAPTER
ACCESS VIA LOCAL PHONE NUMBER, 800 NUMBER OR PDN (PUBLIC DATA NETWORK)

One of the easiest solutions is to set up a Unix host as a gateway for PC or terminal users to the Internet. For example, SCO's Global Access product integrates TCP/IP networking services, a graphical user interface, graphical e-mail, security and the SCO Unix operating system into a single package. Non-Unix Computers will need to run an X-terminals emulation package to access the Unix gateway. A modem pool Multiport ISDN adapter, or other communications device, is also needed.

IP ROUTER


MULTIPORT ISDN CARD, BRIDGE OR ROUTER
INTERNET
LAN SERVER
ANALOG, ISDN OR LEASED LINE
ACCESS VIA LOCAL PHONE NUMBER, 800 NUMBER OR PDN (PUBLIC DATA NETWORK)

For companies that don't want a dedicated Unix gateway, the LAN server or a router on the LAN can provide network members with Internet access. An IP protocol stack must be running on the server along with Windows, DOS or Macintosh client software. The server needs to be equipped with an adequate number of communications devices (such as a modem pool or Multiport ISDN LAN adapter) and it requires either a direct connection such as a leased line, or a switched connection such as an analog or ISDN phone line, to an Internet provider.

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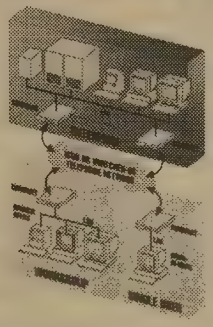
WORKGROUP
ENTERPRISE

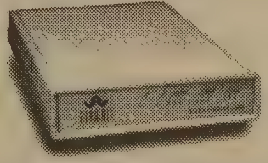
Overview

Combinet EVERYWHERE™ products provide on-demand networking to enterprise local area networks (LAN's) over digital telephone services, which allows remote users to access enterprise networks only when needed. This minimizes telephone charges and benefits users by letting them access enterprise-based applications and data in the same way they do in the offices.

The Combinet EVERYWHERE 2000 Series access unit provides remote offices and workgroups access to an enterprise LAN using Integrated Services Digital Network (ISDN) Basic Rate Interface (BRI).



The EVERYWHERE 2000 Series is compatible with any computer with an Ethernet interface, and allows remote access to all applications and data resident on an enterprise network.



Everywhere 2000
ISDN BRI TO ETHERNET ACCESS UNIT

Benefits

- Economical, high-speed access to the enterprise network
- On-demand networking, resulting in minimal telephone charges
- Simple installation & maintenance
- Interoperable with all EVERYWHERE software
- Software upgradable for investment protection
- Compatible with standards-based ISDN BRI and Ethernet LAN's

Internet Firewall Server

Overview

The new Internet Firewall Server defines a new product category of firewalls by combining packet filters and circuit-level gateways with application servers into a single, highly secure, self-contained system. It's a powerful, advanced security product that protects TCP/IP networks from unwanted external access as well as providing control of internal access to external services.

A few features:

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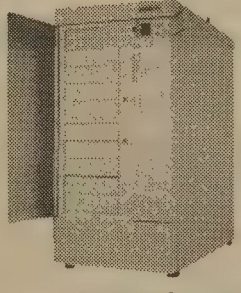
- Packet Filtering-All packets going between the internal network must pass through the firewall.
- Circuit-Level Gateway-With all our connections being Circuit-Level connections, it allows you to enable outgoing Telnet, FTP, WWW, Gopher, AOL and your own user defined applications.
- Applications-The firewall server includes support for several standard applications such as Mail, News, WWW, FTP, and DNS.
- Audit Trails and Alarms-The firewall server has comprehensive audit and logging capability and provides alarms when probing is detected.
- Transparent Proxies-The firewall server allows off-the-shelf application software and many networking softwares to operate transparently through the firewall.

The new Internet Firewall Server has a simple graphical interface for configuration and set-up and is secure so you have the flexibility you need. Please call for all the new and exciting features of the new Internet Firewall Server.



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SMALL OFFICE/HOME OFFICE • BY BIRRELL WALSH

Experts Right Out Of The Box

Business Planning And Legal Software For The Small Business

I found out this week that specialized information software really can be useful.

It had always seemed to me that you could do better by paging through a book, using scraps of paper for bookmarks, than you could by having some program search for you.

This attitude is just wrong, I find: A well-designed information program can hold your hand as you walk through the search. It can also direct you to things you have not thought of looking for.

When you must produce a result—some sort of document, for instance—that handholding can go much further. The product tells you that you need to know something—and then it helps you find it. Or it says you must write something down, and then helps you with questions and examples.

My conversion came from trying out two specialized programs, both of which are designed to help a small-business owner through particularly difficult times in business life. One is the moment you need legal advice. The other is the day you must make a business plan.

My Kingdom For A Plan

Business plans are not just something you cobble together when you want to apply for a loan. They are instead a tool to determine where you are going, and to measure how far you have gotten.

"OK," you say, "interesting," and you turn back to your tasks. Life is too short to spend on things like business plans.

Gentle reader, you may change your mind after you see Palo Alto Software's Business Plan Pro. It makes the purposes and means of business planning clear (and accessible) to those of us who may have stumbled into small business.

I read much of the manual in one long bus ride from downtown San Francisco. I discovered that Business Plan Pro is not so much a piece of software, as it is an idea with software support. The idea is to get your assumptions about your business clear enough so you can check them against reality. The software is a pleasantly designed package in support of that task.

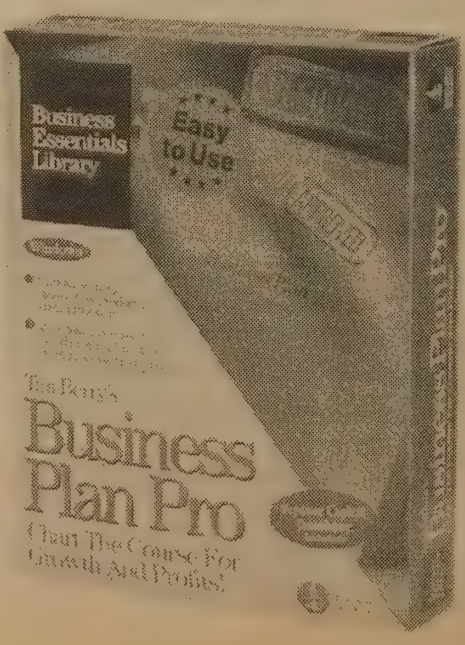
> **You can use Business Plan Pro to evaluate an idea before you start it—to look before you leap. If you have already leapt, it can give you some idea of where you have landed.**

Very near the beginning of the process you are asked to say what your business is about—your mission statement. If you scratch your head and wonder what that really means, Business Plan Pro has provided two helpful aids for this and every piece of writing you need to do—definitions, and examples.

"The mission statement is like a business charter. It should summarize your business goals, your business offering, and your target market. What are you selling, and to whom? Why?" This is the definition that Business Plan Pro gives you.

If you prefer, you can click a little radio button, and the definition is replaced with an example: "Acme Widgets is a manufacturing company dedicated to developing better widget solutions for widget users who can't get what they need from the mainstream widget manufacturers. We intend to make enough profit to generate a fair return for our investors and to finance continued growth and continued development in quality product. We also maintain a friendly, fair, and creative work environment, which respects diversity, new ideas, and hard work."

This definition-and-example strategy is followed with all the text items you need to write. While the definition or the example is open, there is also a text box for you to write your company's statements. Business Plan Pro asks a lot of questions, but it helps you to answer them as well. When you begin a new business plan, it asks you if you are planning a service, retail, distribution, or manufacturing concern. Are you going to sell only for cash, or extend credit? Are you a business-in-progress, or is this a startup? Are you using a home office? Your responses to these queries determine what further questions the program will ask you.


Business Essentials Library
Easy to Use
Tim Berry's
Business Plan Pro
Chart The Course For Growth And Profits!

Useful as it is to have a guide to writing, Business Plan Pro is more than a specialized word-processing program. It also has a family of small spreadsheets. These allow you—should I say "force

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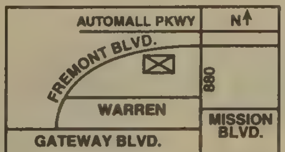

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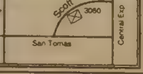

Small Office/Home Office *continued...*

you"?—to make explicit those assumptions on which your busines rests.

One of them asks whether you do all your business in cash, or if yo bill people. How long does it take them to pay? How long do you hav to pay your bills? What does cash cost you if you have to borrow it What does it cost you to employ someone, beyond what you actuall hand them in their paycheck?

Some of the most useful information in the package is in the appendices to the manual: material about the government resources tha have been available and may still be through the Small Busines Administration and state agencies; information about how to fin venture capital, and useful caveats about people who charge to hel you find money.

One appendix entitled "Starting a business" tells in a few page what many of us have sweated and wept to learn. For instance:

"The myth of 'being your own boss': you are not your own bos when you own a business. Your customers are your boss. Your bank i your boss. Your fixed costs are your boss..."

"The myth of independence: owning a business doesn't make yo independent—not needing money makes you independent. As long a you need money you can't be independent."

Ah, yes.

When you have finished with the questions and filled in all th blanks, you will have a rough business plan.

The program has only an ASCII word processor, so it will not make finished and formatted business plan with all the typefaces you ma wish to use. It will produce a group of charts you can embed in a document, and a text file you can import into a word processor for furthe embellishment. You can print out drafts of text, or of charts, or of bot from within Business Plan Pro.

The program worked well, but it was a royal pain to install. Fuming I called the company's home office at five o'clock sharp. I was mollified when a woman named Janie—she claimed she is not part of th help staff; she just made the mistake of answering the phone instea of heading for home—talked me around the installer for a by-han installation. She saved the company's reputation on her own time, an will surely be given a raise.

Using the program is a lot like taking a class. It will not do th work for you. It does ask you to do most of the thinking—but yo want to do that anyway. What it does do is to provide you with th questions and tools you need to make a business plan to guide you enterprise. If you know nothing about business jargon, it will teac you some accounting words and concepts. You will need them to tal about what you are doing in the language a bank or a potentia investor will understand.

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- Microsoft Serial Mouse w/Mouse Pad
- 15″ SVGA Digital Control Monitor .28 Dot Pitch
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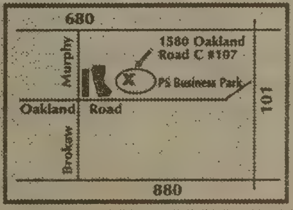

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Small Office/Home Office *continued...*

to ask intelligent questions and to understand the answers. That's my definition of an education. Now they are bringing to Windows software what they have long offered in print. Nolo's Legal Guide for a Small Business takes up only two megs of your hard disk, but it packs a lot of information into that space.

The information is indexed and outlined. In fact, it looks as if someone has used the technology we see in Windows Help to build a full free-standing program. It has hypertext in the familiar green text, some illustrations, and a search engine to find topics. If you have a lot of information to distribute in your profession, you might want to buy this program to use as a model.

What I find most appealing, beyond the obvious competence of the author, is the breezy style of the writing. Without being cute the author has made the law palatable.

When I looked up "Home Based Businesses" I found several subheadings. One was "Taxes." Click, and I was there. Author (and attorney) Fred Steingold treats us to many screens of clear and careful definitions of what is and what is not a deductible home office.

The IRS requires (it says here) that you use that part of your home "exclusively and regularly as your principal place of business, as a place to meet or deal with customers, clients or patients in the normal course of your business, or in connection with your business if you're using a separate structure (such as a garage) that's not attached to your house."

What does all that mean? Steingold has given examples for almost every word of this definition. He talks about a den where you prepare legal briefs and tax returns but also watch TV and play poker (not deductible). A salesman who spends thirty hours a week working at home has the home as his principal place of business (deductible, probably); but if a plumber spends ten hours a week in her home office and the rest of the time in the field the home office is not deductible, because it is not her principal place of business.

If you ask someone to write you a piece of business software, are they an employee or are they an independent contractor? I went to the index and looked up "employee." A quick zip through the employee-related topics and I found "employee vs. independent contractor." Click, and there is information about tax rules. It says here that the IRS decides a person's status by the amount of control you have over the worker. "Basically, if you con-

continued on page 85

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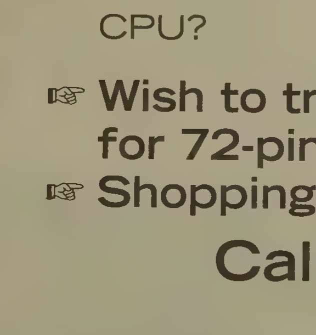

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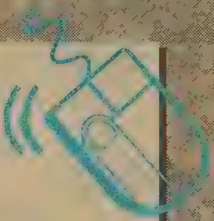
486 Green ISA PCI



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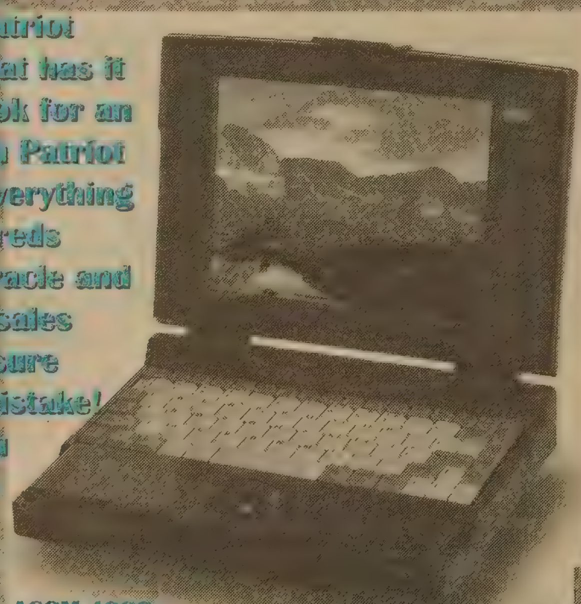

ACOM 4000 PATRIOT

SPECIFICATIONS

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- Intel 486DX2-50/66MHz (SL Enhanced)
- Intel 486DX4-75/100MHz

BIOS
- 1MB flash ROM
- Phoenix BIOS

Memory
- Memory Module (4MB and 16MB)
- 4MB RAM (expandable to 8MB/16MB/20MB/32MB)
- LIM EMS 4.0 supported

Disk Drives
- Built-in 2.5" 540MB harddisk up to 1.3GB
- Programmable power down feature
- Easy to remove/change
- Detachable 3.5" 1.44MB floppy disk drive

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- Active (TFT)/Dual scan (DSTN) color or supertwist monochrome (STN)
- 32bit VESA local bus VGA windows acceleration
- LCD resolution: 640x480x256 colors or 64 shades of gray
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- 15-pin external VGA video port
- One PS/2 port for external keyboard or mouse
- 160-pin connector for docking station
- One audio line-in jack
- One audio line-out jack
- One microphone jack

Keyboard
- Enhanced multifunctional keyboard
- 12 total function keys
- Integrated numeric keypad functions, keyboard mouse emulation
- Inverted "T" type curosr key arrangement

Weight (with single battery)
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- 5.9lbs (dual scan color)
- 6.1lbs (active color)

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- Intelligent power management system
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- 11.4x8.7x2.00" (active color)

Docking Station

Expansion Slots
- Three full-length 16 bit ISA slots
- One half-length 16 bit ISA slot

Bays
- Two 5.25" opened drive bays
- One 3.5" internal drive bay
- One battery charger or 3.5" floppy slot

Sub-systems Features
- Serial ports, Parallel port
- External leyboard port
- PS/2 mouse port
- 15-pin external video port

Power system
- 110/230V, 150W switchable power supply

Physical
- 14 34"(w)x14 34"(d)x3.72(front)" and 6.35(rear)"(h)

Optional Devices
- One CD-ROM Drive & one 5.25" SCSI device
- One 3.5" full size hard disk (SCSI type)

Extra features for Model 4000F Dual Scan 10.3"
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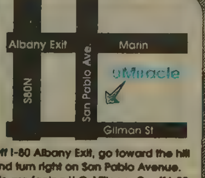

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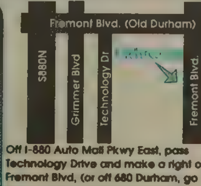

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Pentium Intel-Made Endeavor PCI 256K Cache with Triton chipset, 75-133MHZ, upto 512K Async/Sync Cache, 4 PCI + 3 ISA slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Mastering Mode 4 PCI-IDE interface, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP Ready, Flash AMI ROM, APM PowerSaving, Built-in Sound Blaster Vibra 16S + Yamaha OPL3LS 16bit stereo sound with line-in/out, Joystick, WaveTable connector, CELP COAST (Cache On a STick) Pipelined Burst Sync Cache socket	$345
Pentium 200MHz PCI 256K Cache w/ Triton chipset, 75-200MHz with Socket 7 and VRM (Voltage Regulator Module) P6-Overdrive support, upto 512K Async/Sync Cache, 4 PCI + 3 ISA slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Mastering Mode 4 PCI-IDE interface, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP Ready, CELP COAST (Cache On A STick) Pipelined Burst Sync Cache socket	$220
ASUS P/I-P55TP4XE Pentium PCI 256K Cache w/ Triton chipset, 75-150MHz with VRM (Voltage Regulator Module) P6-Overdrive support, upto 512K Async/Sync Cache, 3 PCI + 4 ISA + 1 ASUS MediaBus slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Mastering Mode 4 PCI-IDE interface, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP Ready, CELP COAST (Cache On A STick) Pipelined Burst Sync Cache socket	$225
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AIR Pentium 586 54CDP Dual 512K Neptune Chipset - 90-133MHz Same as above except supporting 2 CPUs	$885
Pentium P5 - PCI 256K cache - suppt 72Pin SIMM, upto 1MB cache 5 ISA & 3 PCI slots, SIS chipset, with built-in Adaptec SCSI-2 AIC-7870 controller (AHA-2940W equivalent) supporting 50 pin Fast SCSI-2 and 68Pin Fast Wide SCSI-2 onbrd, Enhanced IDE, Floppy port, High Speed 16550 UART serial ports, Enhanced Parallel port, 50 pin SCSI, IDE & Floppy cables & complete software	$455

CPU & Memory: (Prices Subject to Change without notice)

Pentium P5-75/90/100/120/133MHz CPU	$Call
Intel 486-66DX2/100DX4	$Call
AMD 486-66DX2/80DX2/100DX4/120DX4 3.3V	
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256K Pipelined Burst Synchronous Cache COAST module	
512K Pipelined Burst Synchronous Cache COAST module	
1MB DRAM for Video Card (256Kx16-70ns DRAMx2pcs)	
2MB VRAM for Video Card (256Kx8-70ns VRAMx8pcs)	
4MB RAM SIMMs (1M-70ns 30-Pin SIMMx4pcs)	
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Adaptec 2940W PCI Fast WIDE SCSI-II, 20MB/s burst, 15 SCSI devices support w/ 50 & 68Pin ribbon cable Cmplete Kit & sftwre.	$235
NCR SCSI-2 53C810 Bus-Mastering PCI Controller	$105
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SCSI External Cable Centronic to Micro-D 68Pin 3"	
SCSI Cable Micro-D 68Pin to Micro-D 68Pin 6"	
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Ethernet NE2000 ISA 16Bit Adapter Coaxial/10-Base T/Combo	
Ethernet NE2000 PCI Adapter Combo	
Intel EtherExpress Pro 10/100BaseT PILA 8465 PCI	
3COM Etherlink III 3C595-TX Fast Ethernet 10/100Base T PCI	$222
3COM Etherlink III 3C590-CB Bus-Mastering PCI Combo	
3COM Etherlink III 3C590-TPO Bus-Mastering PCI 10BT	$145
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3COM Etherlink III 3C509 16bit Combo	$105
3COM Etherlink III 3C579 EISA 32bit 10-baseT/Coaxial	$210

Video Card:

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Trident 9440 Windows Accelerator PCI/VLB 1280x1024, 16.7Million Color 1MB/2MB	
Diamond Stealth SE S3-732 Chipset 1MB/2MB PCI	
Diamond Stealth 64 Video DRAM PCI 64Bit Graphic Engine S3-868 2MB DRAM Version	$160
Diamond Stealth 64 Video VRAM PCI 64Bit Graphic Engine S3-968 2MB/4MB VRAM Version	$255/415
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Number 9 GXE 64 Pro 1600 PCI VRAM 2MB/4MB	
Number 9 Imagine 128 4MB PCI	$795
Number 9 Imagine 128 1600 4MB PCI	$1015

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Hitachi NSA SuperScan CM1587M 15" NI, 1280x1024, 0.28DP, FlatScreen, EPA Green, Digital Controlled	$395
MAG DX17F 17" Digital Control 30-64KHz, .26DP, upto 76Hz, 1280x1024NI, Green, MPRII, VESA DPMS, 3yr Warranty	$665
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Viewsonic 20G .28DP 1600x1200NI, Digital Control	
Viewsonic 20PS .28DP 1600x1200NI Digital Control	
Viewsonic 21PS .25DP 1600x1200NI Digtal Control	$
NEC, ADI, Nanao, Nokia Monitor, etc	$

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Digicom 14.4K Fax/Data Internal 16550 UART	$55
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Zoltrix 28.8K V.34 Fax/Data Internal 16550 UART	
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USR Sportster VI 28.8K V.34 Fax, Int. w/ Personal Voice Mail	
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Colorado PowerTape PT50 4.0GB SCSI 1/4"	$995
Tape Cartridges for Colorado Backup	$Call

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Focus 9000 129 Programmable w/Calculator	
NorthGate OmniKey 101NI/102	$7
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MicroSoft Ergonomic Serial Mouse	$3
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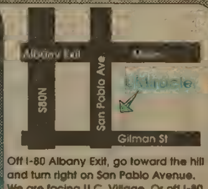

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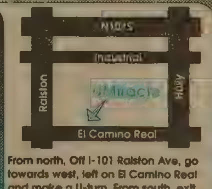

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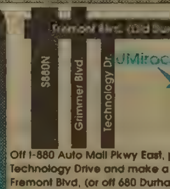
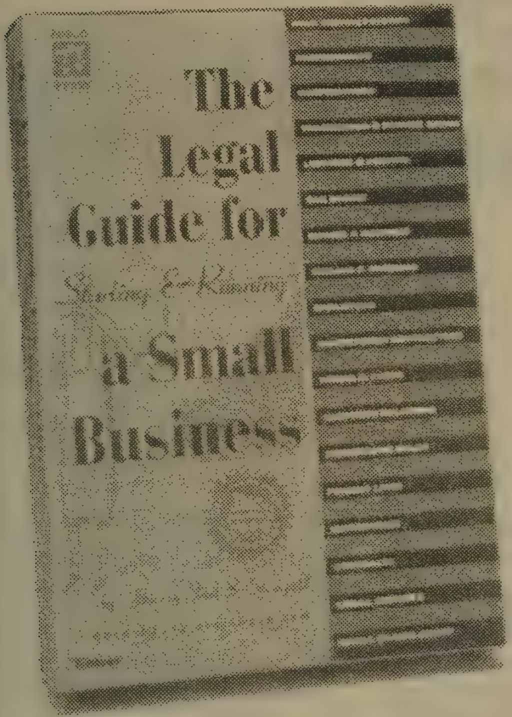


Off I-880 Auto Mall Pkwy East, Technology Drive and make a Fremont Blvd, (or off 680 Durha west, pass Osgood Rd, then m left on Fremont Blvd.) first drive your right.

Small Office/Home Office

continued from page 80



trol—or can control—not only what is to be done but how it's done, the worker is an employee... The IRS doesn't care what you call the relationship. You can designate someone as a partner, co-adventurer, agent or independent contractor. But if the person really is an employee, the IRS says that is how you must treat the person." There follow two lists—one of fifteen factors that tend to show a person is an employee, and another of nine indicators that someone is an independent contractor.

There are further references at the end of each chapter, in case you want to read more on a topic. There are also legal citations as hypertext footnotes, so you can research a case in depth.

As you read the detailed and clear text, the convolutions of the law begin to make some sort of sense. Or at least as much sense as they are likely to ever make.

This accessibility does not mean you are going to spend your free evenings browsing through the Nolo Guide. It means that you have quick help if you need it, a first approximation of an answer to legal questions when they come up. Unless you have a cousin who is a lawyer, you can save more than the $24.95 cost of the product the very first time you look something up. In fact you could probably buy six copies and still save money. ■

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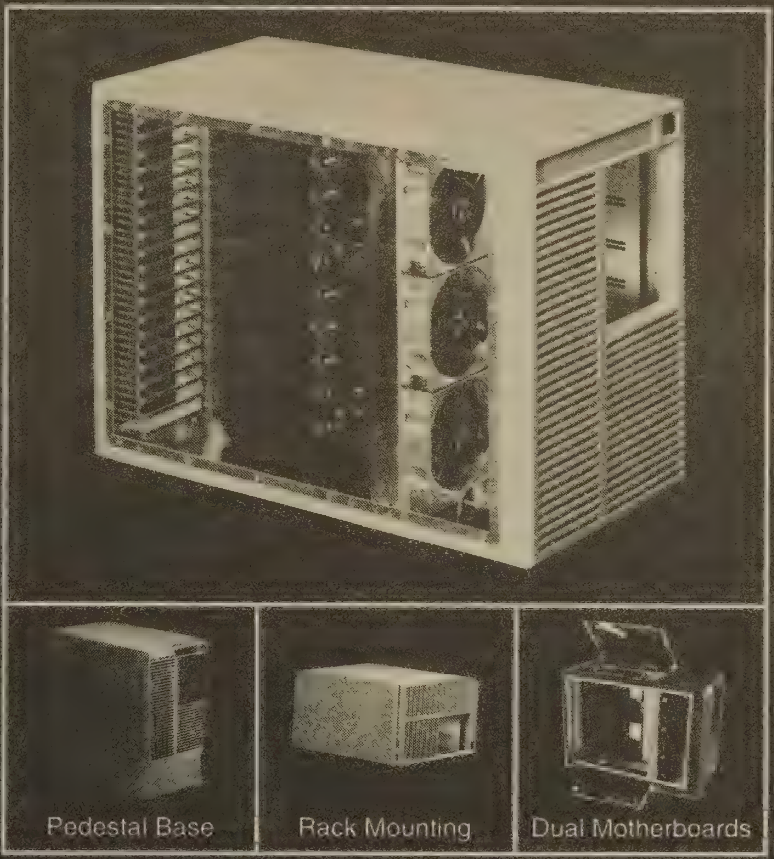

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Tax Resources On The Internet

It May Not Have All The Answers, But The Net Offers A Wide Range Of Tax-Related Resources For Almost Anyone

Tax resources are available on the Internet with a focus for every seeker of tax information: ordinary citizens with questions, government agencies, tax practitioners, publishers, policy makers, tax protesters, international bodies, as well as browsers, cheaters, and just about anyone with an agenda or philosophy regarding the "T" word.

Despite the profusion of sites, only a small fraction of the total will pay off for those with specific needs. And while the quantity of information is rapidly expanding, the adequacy of resources has not yet come into full bloom. Still missing are the core of tax research: court decisions and administrative rulings, as well as analytical services and other vital secondary sources.

If you intend to seriously reference the net for do-it-yourself tax advice and inspiration, you should spend some time browsing and just becoming familiar with how well available sites suit your specific interests. If you find nothing in the hodgepodge to meet your needs, your exploration hours are still well spent. It's just a matter of time until more complete material does become available.

Happy Trails

There are quite a number of World Wide Web sites from which to begin your travels. They are organized in traditional menu structures, with links to the major tax tourist spots. But before going on an in-depth exploration, I recommend first a "quick and dirty" overview of all tax resources out there.

To this end, my WebCrawler (*http://www.webcrawler.com/*) query of the word "tax" turns up 2573 references, which included many other valuable Web sites. Here's a few soundbites representative of the exotica that show up: Welcome To The Flat Tax Home Page!, Utah Tax Commission, Freedom Tax Coalition, Deloitte & Touche Bermuda, M.Y.O.B. Accounting, Taxprep Information Systems, Purple Training Tax Net.

Three other Web sites that offer a place to begin are:

Frank McNeil's TaxSites (*http://www.best.com/~ftmexpat/html/taxsites.html*). This site is well regarded, and may be the single best choice for generalists. There are a large number of well-organized categories, and additions are updated regularly. McNeil's TaxSites is a good choice to save on your "bookmark" or "hotlist," not only for its comprehensiveness, but also because it links to other pages, providing an efficient launchpad.

> Although many **judicial** resources exist, access to most is **restricted** due to agreements with **court** reporter publishers.

Tom Omer's Tax Information Sites (*http://omer.cba.neu.edu/OtherSites/sendem.html*), another comprehensive place to visit, is the endeavor of Professor Thomas E. Omer of Northeastern University. It tends to focus on academic and technical resources, unlike McNeil's, and it also links to sites that everyone seems to be chatting about. If you're interested in a quick overview of technical resources, Professor Omer provides a brief description of most of the linked sites.

Don't forget Yahoo. In some ways Yahoo is similar to WebCrawler. It maintains a current and well-organized hierarchical structure of Internet sites, making it one of the most popular URLs on the net. One of its categories is economics, from which you can link to a subcategory for taxes (*http://www.yahoo.com/Economy/Taxes*).

Yahoo lacks the editorial purposes or agendas that drive the sponsors of sites mentioned above, so your tour will be more self-directed and may suffer inefficiency. It's more organized than a random word search but less so than a dedicated tax Web page.

Mixed News

The most popular Usenet newsgroup for chatting about taxes is misc.taxes .

Michael Gross, Esq., author of *Pocket Tour of Law on the Internet* (Sybex, 1995), visits this site periodically to toss in his two cents. According to Gross, the quality of discourse at this newsgroup goes through its ups and downs, so don't judge it on a single impression.

As of this writing, misc.taxes seems to be in the down mode. Many of the subscribers appear uninformed, not only about taxes but arithmetic as well. Gross claims that the quality was much better just a few months ago, and that tax professionals visit the site regularly.

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Aldus PageMaker Win 5.0	495
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Bravo MS P-90 8/540 PCI	2035
Bravo MS DX2-66 8/540 ISA/LBus	1498
Bravo LC DX4-100T 8/540 ISA/LBus	1579
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Premia MX P-75 16/1GB, CD-ROM	2751
Manhattan P-60 16/1.0GB, PCI, CD-ROM	2949

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8MB	$399
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32MB	1399
AST Notebooks	
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8MB	399
16MB	699
IBM ThinkPads	
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16MB	735
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ers hang out, kvetch about how bad CD-ROM tax services are, and dole out tax advice to passersby much as we toss smelt to the birds on Lake Merritt.

Misc.taxes visitors will find everything from the subtle to the evasive. I found advice of both the sound and lousy varieties, more or less equally distributed. The usual transparent schemes, like setting up out-of-state service corporations, were predictably well represented, as were tax protest strategies that are almost doomed to fail. A good portion of postings are from citizens with all-encompassing philosophies about man and tax and law. Picture UC Berkeley's Sproul Plaza, but if Reagan had closed down the big-eight accounting firms at the same time that he closed the state mental hospitals.

RESOURCES:

Pocket Tour of Law on the Internet
Michael Gross, Attorney
Sybex

George Berns, Attorney
Oakland, California

Anyone with a thought about taxes can find a forum to air it at misc.taxes .

Elusive Federal And State Tax Law

If your goal is to do hardcore tax research on the net, you will be deeply disappointed. Too much is simply missing. Although many judicial resources exist, access to most is restricted due to agreements with court reporter publishers.

All citizens are presumed to know the law, but that doesn't mean they're entitled to free and convenient access to it. According to George Berns, an Oakland attorney, "There is a controversy. It's outrageous that the state franchises your right to see a court decision by granting exclusive contracts. On the other hand, legal publishers provide a valuable service with their bound and easily accessible court opinions."

You can now download Supreme Court cases from the net, as well as appellate decisions for the Third and Eleventh Circuits, but not others. Ninth Circuit decisions (California) are unavailable. Neither will you find California state court decisions. However, federal district court decisions may become available soon.

Access to the United States Code, including the Internal Revenue Code, is readily available and linked by many of the sites mentioned here. One site, U.S. Tax Code On-Line, is a well-designed front end to the United States Internal Revenue Code, created by John W. Kelvin (*kelvin@fourmilab.ch*).

You can also access tax regulations from the Code of Federal Regulations (*http://www.pls.com:8001/his/cfr.htm*). These Regulations are the central body of administrative tax law. By using its search tools, you can access provisions by citing them (i.e., providing

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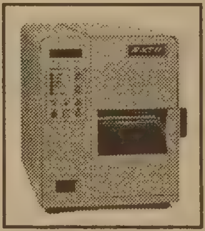

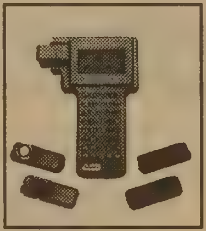

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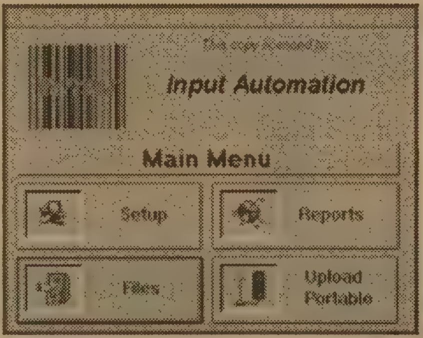

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Processor	Screen	Hard Drive	Price
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486DX4/75	10.4" Active	500MB	$3698

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- 772MB HD, 8MB/40MB
- 1 Type II & Type III PCMCIA slot
- Microsoft Sound System, built-in microphone audio output

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T4700, T4800, T4850

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- Brilliant color display with local bus video
- 1 Type II or Type III PCMCIA Slot
- Microsoft Sound System, built-in microphone audio out port

Model	Processor	Screen	Hard Drive	Price
T4700	486DX2/50	9.5" Dual Scan	200MB	$2698
T4700	486DX2/50	9.5" Dual Scan	320MB	2798
T4800	486DX4/75	9.5" Active	500MB	3098
T4850	486DX4/75	10.4" Active	500MB	3248
T4850	486DX4/75	10.4"' Active	722MB	3448

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- PCMCIA Type II Slot
- Intergrated Accutpoint Pointing device

Processor	Screen	Hard Drive	Price
Pentium 90	9.5" Actvice	720MB	$4448
486DX2/50	8.4" Active	500MB	3198
486SX/33	7.8"' Active	120MB	1698

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- 1 Type II or Type III PCMCIA slot (T2400 series)
- 2 TYpe II and Type III PCMCIA sot (T2100 series)
- 82-key key
- Accupoint pointing device

Model	Processor	Screen	Hard Drive	Price
T2100	486DX2/50	9.5" Mono	250MB	$1198
T2110	486DX4/75	10.4" Dual Scan	350MB	1998
T2110	486DX4/75	10.4" Active	350MB	2398
T2130	486DX4/75	10.4" Active	500MB	2998
T2130	486DX4/75	10.4" Dual Scan	500MB	2398
Pro Series				
T2400	486DX2/50	9.5" Dual Scan	320MB	2148
T2400	486DX2/50	8.4" Active	320MB	2698
T2450CT	486DX4/75	9.5" Active	320MB	3098
T2450CT	486DX4/75	9.5" Active	500MB	3198

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- 10.4" Active &10.3" Dual Scan Displays
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- PanVision graphic for up to 1024x768 resolution
- 2 Type II or 1 Type III PCMCIA slot

Model	Screen	Hard Drive	Price
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486DX4/75	10.3" Dual Scan	510MB	2598
486DX4/75	10.4" Active	510MB	3548
486DX4/75	10.4" Active	700MB	3798

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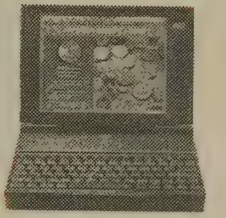

Processor	Screen	Hard Drive	Price
Pentium™75	10.4" Dual Scan	500MB	$3228
Pentium™75	10.4" Dual Scan	800MB	$3498
Pentium™75	10.4" Dual Scan	1.2GB	$3968
Pentium™75	10.4" Active	800MB	$4598
Pentium™75	10.4" Active	1.2GB	$4998

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• T4800CT/500	$2798	• T4900CT/800	$4398	• T1950CS/200	$1798
• T1950CT/200	$1998	• T4600CT/320	$2398	• T1960CS/200	$1598
• T6400SXC/120	$CALL	• T6400DX2C/200	$CALL	• T6400MMC/200	$CALL

NEC
Versa P - Lowest Priced Pentium

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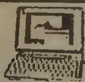
HP OmniBook NoteBook PCs 4000 Series

Desktop to-go-PCs

Processor	Screen	Hard Drive	Price
486DX2/50	10.3" Dual Scan	260MB	$2298
486DX2/50	10.3" Dual Scan	340MB	2448
486DX2/50	10.3" Dual Scan	520MB	2798
486DX2/50	10.4" Active	340MB	2648
486DX2/50	10.4" Active	520MB	2848
486DX4/100	10.3 Dual Scan	340MB	2878
486DX4/100	10.3 Dual Scan	520MB	3098
486DX4/100	10.4" Active	340MB	3278
486DX4/100	10.4" Active	520MB	3478



HP OmniBook NoteBook PCs 600 Series
Lightweight with Performance

Processor	Screen	Hard Drive	Price
486DX2/50	8.5" Dual Scan	170MB	$2298
486DX2/50	8.5" Dual Scan	260MB	$2448
486DX4/75	8.5" Dual Scan	170MB	$2748
486DX4/75	8.5" Dual Scan	260MB	$2928

HP LaserJet Printers

HP LaserJet 4L	$498.00
HP LaserJet 5P	$848.00
HP LaserJet 5MP	$998.00
HP Scanners	
HP ScanJet3C, Color	$948.00
HP ScanJet3P, Greyscale	$448.00
HP DeskJet 1600C	$1298.00
HP InkJet Printers	
HP DeskJet 320	$298.00
HP DeskJet 320 w/Sheet Feeder	$358.00
HP DeskJet 850C	$548.00
HP DeskJet 660C	$478.00
HP DeskJet 1600C	$1298.00
HP DeskWriter 320	$288.00
HP DeskWriter 320 w/Sheet Feeder	$358.00
HP DeskJet 850C	$548.00
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HP Fax 700	$578.00

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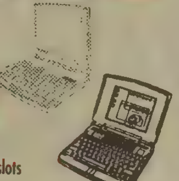
TravelMate 5000

- PCI bus Architecture to optimize Pentium processor performance
- 2MB Video RAM
- 16-Bit Sound, speaker, microphone & MIDI

Processor	Screen	HardDrive	Price
Pentium74MHz	10.5" Dual Scan	500MB	$3848
Pentium 75MHz	10.4" Active	772MB	$4598



TravelMate 4000M

- Brilliant color display
- 2 Type II or 1 Type III PCMCIA slots
- 16-Bit Sound card

Processor	Screen	Hard Drive	Price
486DX2/50	9.5" Dual Scan	340MB	$1998
486DX2/50	8.4" Active	455MB	2198
486DX4/75	9.5" Dual Scan	455MB	2198
486DX4/75	8.4" Active	340MB	2198
486DX4/75	8.4" Active	455MB	2448
486DX4/100	9.5" Active	525MB	3248

Versa P

Lowest Priced Pentium Notebook

2 Type II or 1 Type III PCMCIA slot
Removeablel HD, Floppy, & Screen
Integrated speaker & microphone

Processor	Screen	Hard Drive	Price
Pentium 75	9.5" Active	340MB	$3998
Pentium 75	9.5" Active	540MB	$4298
Pentium 75	9.5" High Res.	540MB	$4448
Pentium 75	9.5" Active	540MB	$4298
Pentium 75	9.5" High Res.	810MB	$4798

Versa M

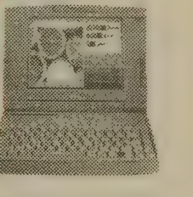
Highest Resolution & True Color Display

2 Type II or 1 Type III PCMCIA slot
Removeable HD, Floppy, & Screen
Integrated speaker & microphone

Processor	Screen	Hard Drive	Price
486DX4/75	9.5" Dual Scan	340MB	$2298
486DX4/75	9.5" Active	540MB	$2998
486DX4/75	9.5" High Res.	540MB	$3198
486DX4/100	9.5" True Color	540MB	$3398
486DX4/100	9.5" Active	810MB	$3998
486DX4/100	9.5" High Res.	810MB	$4248

NEC Versa V
"V" for Value

Processor	Std/Max RAM	Screen	Hard Drive	Price
486DX2/50	4MB/20MB	9.5" Dual Scan	250MB	$2198
486DX2/50	4MB/20MB	9.5" Dual Scan	340MB	$2348
486DX2/50	4MB/20MB	9.5" Active	250MB	$2348
486DX2/50	4MB/20MB	9.5" Active	340MB	$2548
486DX2/50	4MB/20MB	9.5" Active	540MB	$2848
486DX4/75	4MB/20MB	9.5" Active	340MB	$2748
486DX4/75	4MB/20MB	9.5" Active	540MB	$3048



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Optra Rx 16ppm, @ 600 dpi, 4MB max 64MB, PSL2 2 PCL5, 87 fornts 404916R $1998

Optra L 12ppm @ 600dpi, 4MB max 64MB, PSL2 e PCL5, 87 fornts 40912L $1898

Optra Lx 16ppm, @ 600 dpi, 4MB max 64MB, PSL2 2 PCL5, 87 fornts 404916L $2448

Optra Lxi 12ppm, @ 600 dpi, 4MB max 64MB, PSL2 2 PCL5, 87 fornts 404916E $2998

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Product Highlights

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The best portable sound/CD solution

Integrated CD-ROM, Sound, and Speaker System
Upgrade any notebook with full multimedia capabilities in one easy step.
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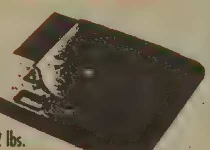
Double-speed CD-ROM drive. Maximize performance of any CD-ROM title with smooth animation sequences and fast text retrieval.



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486DX4/100	8/700 TFT	$3898

Z-STAR EX

486DX2/50	4/250 Mono	$1098

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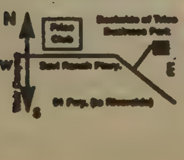

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the regulation section) or by performing word searches.

Professional tax publications can be very expensive in real life, and the only free access to most are public law libraries. There are several law libraries on the Internet, both in the United States and abroad. Examples include Cornell Law School and Chicago-Kent. University of Iowa maintains some tax resources on the net, as well as providing links to governmental and commercial tax sites (*http://www.biz.uiowa.edu/acct/tax.html*). They are worth a visit, but here, too, access of certain materials is highly restricted.

Legal search services, which charge high per-minute fees for their proprietary online service, are represented. I found a URL for LEXIS (*http://www.lexis-nexis.com*); to no surprise, the site offers mostly just advertising. The real stuff will still cost you.

Examples of the type of legal resources that are readily available include Federal Rules of Civil Procedure, California Rules of Civil Procedure, and the Federal Rules of Evidence. They aren't annotated, and do not pretend to be user-friendly.

For those with further interest in the realm of law, tax and otherwise, I recommend Gross's *A Pocket Tour of Law on the Internet*, scheduled for release this month. It's not intended as a comprehensive review of everything legal, but it's a useful discussion of good sites with legal information for professionals as well as the general public.

Fun With Government

Taxing authorities are setting up home pages like they were going out of style. A good access point is the House of Representatives Internet Law Library (*http://www.pls.com:8001/*). One of its features is links to state tax agencies. Click on the state of choice and see their tax stuff.

Full-text versions of all House and Senate bills and the Congressional Record for the last four sessions of Congress can be searched at this site, too. Detailed legislative information is also provided.

The Internal Revenue Service site (*http://www.ustreas.gov/treasury/bureaus/irs/irs.html*) is one of many maintained by the Treasury. Uncle Sam, an arts benefactor, understands and appreciates the importance of .gif files. No naked persons yet, but you won't be disappointed graphics-wise.

You want tax forms? No problem. You can download forms, instructions, and publications in different file formats. Formats include PCL, PDF, or PostScript. PDF downloads are better reproductions than PCL. A free Adobe Acrobat reader can be easily downloaded at the IRS home page, to encourage you to take advantage of PDF files.

The IRS also maintains a Help Desk on the World Wide Web. The function of the Help Desk is to explain how to obtain computerized forms, and to suggest formats most suitable for

continued on page 214

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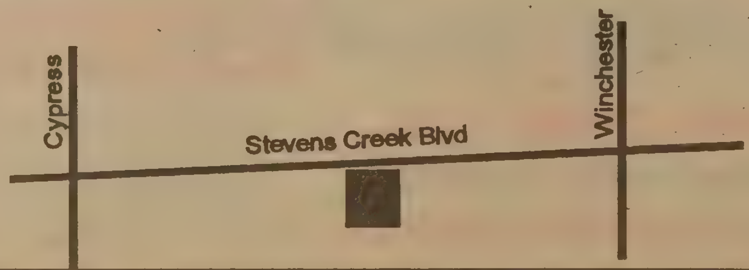

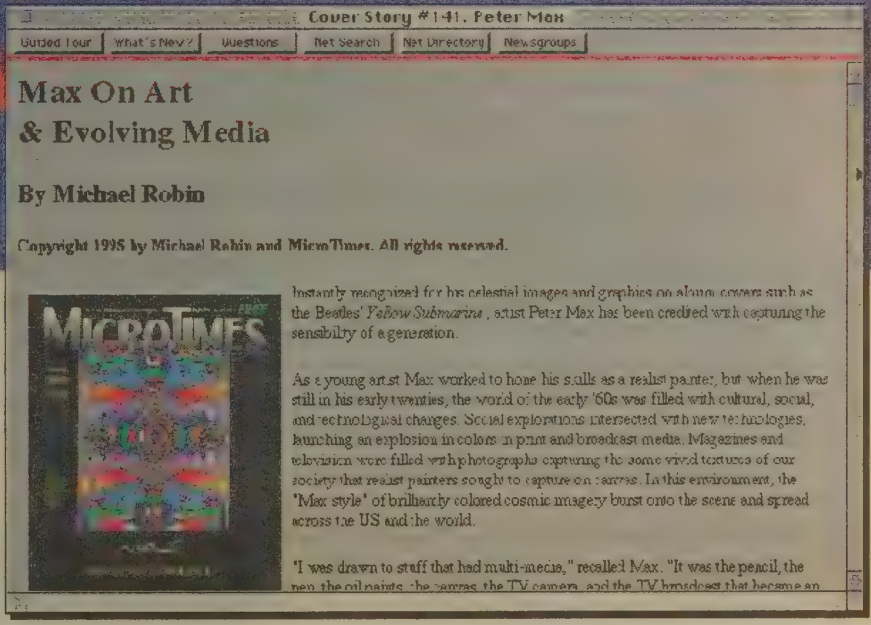

Max On Art & Evolving Media

By Michael Robin

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Instantly recognized for his celestial images and graphics on album covers such as the Beatles' *Yellow Submarine* , artist Peter Max has been credited with capturing the sensibility of a generation.

As a young artist Max worked to hone his skills as a realist painter, but when he was still in his early twenties, the world of the early '60s was filled with cultural, social, and technological changes. Social explorations intersected with new technologies, launching an explosion in colors in print and broadcast media. Magazines and television were filled with photographs capturing the same vivid textures of our society that realist painters sought to capture on canvas. In this environment, the 'Max style' of brilliantly colored cosmic imagery burst onto the scene and spread across the US and the world.

"I was drawn to stuff that had multi-media," recalled Max. "It was the pencil, the pen, the oil paints, the canvas, the TV camera, and the TV broadcast that became an

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Online Guide

INTERNET • BY JOHN S. QUARTERMAN AND SMOOT CARL-MITCHELL

Gender On The Internet

The Imbalance Is Overrated

Several months ago, we reported in this column (in "A New Estimate of the Sizes of the Internet and the Matrix") that "It appears the male/female ratio among Internet users is less than 2/1, that is, about 60/40 male/female." Let's look at that ratio more closely.

The source of the data is the Second MIDS Internet Demographic Survey of October 1994, for which we received 1468 usable responses out of a universe of 13,302, for about 11% responding. For copious notes on how we conducted the survey and checked it for representativeness, see *http://www.mids.org/mids/press gen.html*, or send mail to *mids@mids.org*.

Basically, we sent a questionnaire by electronic mail to essentially every organization on the Internet, we collected responses by electronic mail, and we then projected the composite results to the Internet at large. Our survey was worldwide, and used the Internet itself; thus it included, but was not limited to, the United States.

Let's look at gender for both the US and for the world, as shown in Table 1.

Table 1, Gender on the Internet, World and US, October 1994. With 95% level of confidence:

	male	female	responses	margin of error
World	63.3%	36.7%	1468	+/-3%
US	54.2%	45.8%	643	+/-4%

As it happened, this was the *least* popular question on the survey form. We got the most comments about it (people thought it was too nosy) and the fewest responses. Nonetheless, we got more than one thousand usable responses to it. That means that we can assert with a 95% level of confidence that the male/female ratio is correct within a 3% margin of error worldwide. Since the US responses were a subset of the worldwide responses, there were of course fewer of them, and their margin of error is 4%.

Why do we give margins of error and a 95% level of confidence for these gender numbers, but not for host and user estimates derived from the same data? Because the gender numbers are ratios of a kind appropriate for the concept of margin of error, while the size estimates are extrapolated totals, which are more susceptible to perturbation by outliers.

The 9:1 Myth

We have seen elsewhere a hypothesis that the ratio of male to female Internet users is 9:1. We consider our results to have statistically proved that hypothesis to be false. The real ratio is closer to 2:1 or even 3:2.

The US figures differ from the world ones by more than the margins of error, so it appears there is a real difference in the proportion of women on the Internet in the US vs. worldwide. This isn't surprising, since the Internet started in the United States and many new features of the Internet, such as commercialization, start first in the US.

One reason the Internet gender ratios are so balanced is all those students in universities. What if that's the main reason, and only the educational part of the Internet has a balanced gender ratio? Let's look at the numbers for educational and commercial responses in Table 2.

Table 2, Internet Gender Ratios: Educational and Commercial, Oct. 1994. With 95% level of confidence:

	male	female	resp.	margin of error
World	63%	37%	1468	+/-3%
educational	58%	43%	217	+/-7%
commercial	68%	32%	589	+/-4%
US	54%	46%	643	+/-4%
educational	51%	49%	88	+/-11%
commercial	56%	44%	284	+/-6%

Please note that we really do mean educational and commercial, not just within the domains EDU and COM. For example, organizations under AC.UK would likely be counted under EDU. And so would universities in France, which has no educational vs. commercial subdomains. We determined whether an organization was commercial or educational by asking on the questionnaire. For the US responses, the division is mostly the same as for EDU and COM, but there are still some organizations under US, NET, etc. that we also accounted for as educational or commercial.

The margins of error in Table 2 for the educational and commercial subsets are of course still larger than the ones we saw in Table 1, since the number of responses for the subsets was smaller.

The educational gender ratios do show more women proportionally than on the Internet at large, both in the US and worldwide. The difference in percentages is within the margins of error, however, so the difference is not terribly significant.

The commercial gender ratios show more men proportionally than on the Internet at large, once again both in the US and worldwide. And again the difference is not large. For the US it is within the margin of error. For the world, it is on the edge of the margin of error.

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Nonetheless, we do see this phenomenon of higher ratios of women within academic subsets and lower within commercial subsets when we examine subsets for almost any country with a reasonably large set of responses, so we tend to think the phenomenon is real. We also see that even the overall worldwide commercial ratio is not anywhere near 9:1 male:female; actually, it's only a little more than 2:1.

These numbers are all for October 1994, and many more people have joined the Internet since then. We would expect the proportion of female users has increased, and we will be attempting to measure that later. However, we expect the ratios are still similar today to those given above.

O'Reilly's Poll

Meanwhile, we see that O'Reilly is advertising the results of a telephone survey of five hundred people in the US, for which they claim a 66:34 male:female gender ratio with 5% margin of error and 95% level of confidence. O'Reilly's 34% female proportion is somewhat lower than our 36.7% for the world. However, the 2.7% difference is within either their 5% margin of error or our 3% margin of error. This is actually somewhat surprising, since we understood their survey to be of the US. Their figures differ more from ours for the US, by (45.8 - 34 = 11.8%), which is outside either margin of error, or both combined (4 + 5 = 9%), for that matter, although only by about 3%.

> It appears there is a **real difference in the proportion of women** on the Internet in the US vs. worldwide. **This isn't surprising,** since the Internet started in the United States and **many new features** of the Internet, such as commercialization, start first in the US.

This deviation could be due to an actual decrease in the proportion of women on the Internet in the US between fall 1994 and summer 1995 (which is conceivable, although the opposite of what we would expect). Or, if their poll was actually of a random sample of the US population, the number of their respondants who were on the Internet must have been small, and thus their results would be less accurate. Whatever the cause of the deviation, the more interesting feature is that two surveys conducted by such radically different methods produced such similar results. We consider O'Reilly's results to be yet more confirmation that our methods are sound and our estimates are reasonably accurate.

A detailed report on our results from October 1994 is available now from MIDS. We will also be conducting another survey starting in September, to complete in October 1995.

One thing for sure is that the male:female ratio for the Internet is not 9:1, nor even 3:1, as has been reported elsewhere. It is closer to 2:1, and for the US is even approaching 1:1. ■

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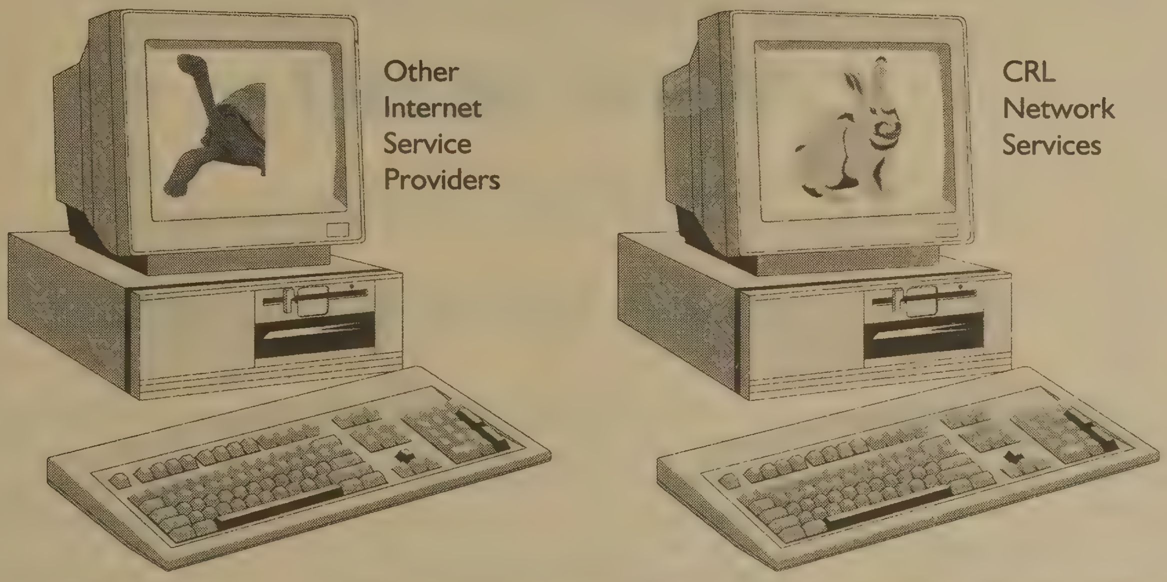

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But When? How?

Cable operators have much to prove by way of establishing themselves as players in the online arena.

What we're talking about is using the TV cable reaching into most homes instead of phone lines to access online services like Prodigy, America Online (AOL), Microsoft Network (MSN), and CompuServe, in addition to Internet services like Web pages, newsgroups, and file archives.

In the race to provide fast delivery of graphics and interactive services, the broadband throughput that cable provides (approximately 350 times faster than 28.8Kbps) is a highly touted benefit. Yet, while announcements concerning strategic alliances between major cable operators and content providers, and limited experimentation in cooperation with existing online services, have captured headlines, two key issues, price/performance and service, must be addressed if cable's onslaught against the dial-up telephone systems is to succeed.

It's getting pretty busy in the boardrooms as the players choose sides and form teams. TeleCommunications Inc. (TCI) recently bought a 20% stake in MSN. TCI has also announced its plans to launch @Home, slated for arrival in 1996 to provide connections to the Internet, MSN, and a number of regional content providers including daily newspapers.

Experiments using cable for data are also underway. Cox Cable, for instance, has already begun delivering high-speed access to some Prodigy users in San Diego. Cablevision and Time Warner are also working with various partners and online services in test markets around the country.

Testing: Castro Valley And Beyond

One such experiment has been taking place in Castro Valley, California, for most of this year. There, AOL, in partnership with Viacom Cablevision, has been conducting a market trial to demonstrate the consumer benefits of delivering online services over a broadband network. The success of the program thus far has led AOL, in association with Time Warner, to duplicate the experiments in other markets, most recently in Elmira, NY.

> What cable companies really mean by **"interactive"** is merely that you place an order.

Other services are also dabbling in high-speed access, hoping to mirror America Online's goal of offering increased bandwidth to its members. The goal is to provide a more robust multimedia online experience, including delivery of real-time audio and video, and the ability to download photos and graphics, software, and other multimedia files much faster than is otherwise possible.

Broadband service also means faster access to the Internet using AOL's newly integrated Web browser, and will free up members' telephone lines while they are online. According to Ted Leonsis, president of AOL, "The early feedback we've gotten indicates our members are very enthusiastic about the benefits broadband technology brings."

In test markets like Castro Valley, AOL typically offers qualified members the opportunity to participate, with subscribers paying only the standard monthly rate of $9.95 for five hours and $2.95 per additional hour. Unfortunately, subscribers have to buy or rent a cable modem.

Cable Modems: Boon Or Bane?

The experiment involves having signal from AOL delivered, almost as a channel, but one that can only be accessed by a cable modem—and here's the rub.

Cable modems attached to network cards or serial ports of computers promise huge speed increases over even the fastest modems available today. Major manufacturers including Intel, Motorola, Hewlett-Packard, and Zenith (a storied supplier of cable converter boxes) are now offering these gizmos that deliver a wide range of speed and price. Zenith's Homeworks provides 500Kbps throughput both to and from the computer. Digital Equipment's Channelworks delivers 10Mbps speeds both ways, while Hewlett-Packard's new entry will handle 30Mbps downstream and 10Mbps upstream.

Needless to say, these babies are expensive, averaging around $500 for the lower-level performance. Many experts admit that this level of pricing will keep cable data services from going anywhere real fast; pricing must get below $300 to help market acceptance.

Two **key issues,** price/performance and service, must be addressed if **cable's onslaught** against the dial-up telephone systems is to succeed.

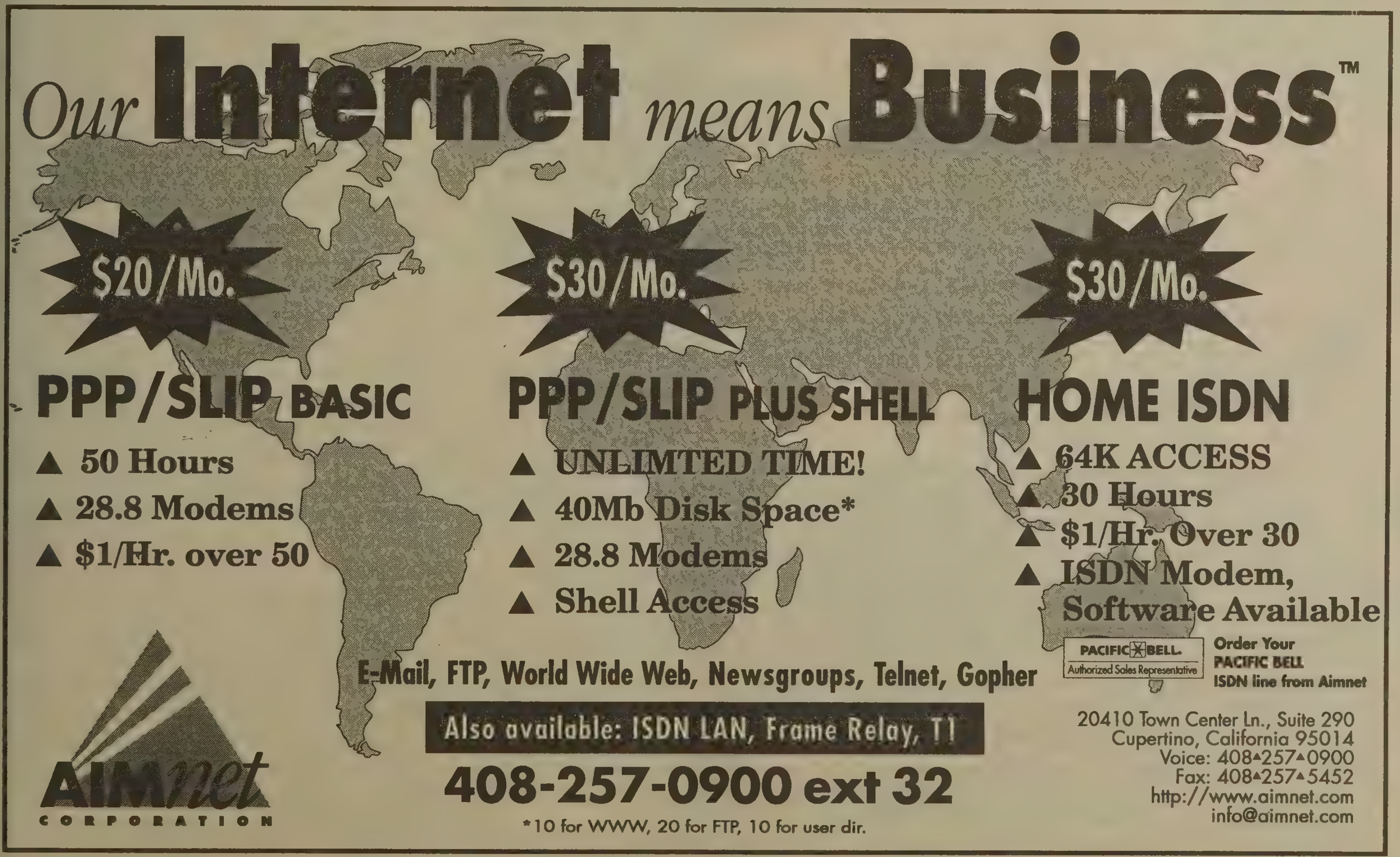
Real Two-Way Service? Maybe Not

There is also the question of whether cable operators will in fact offer two-way communications over one cable connection, or require users to employ two separate connections.

In some scenarios the downstream connection (from the originator to your home or office) is over cable, while the upstream (your signal back to the provider) is handled by a regular dial-up phone line. The thinking here is that the inbound signal is the one that needs the macho bandwidth; this model is based on the assumption that the majority of signal content will be channeled down to users surfing the net who only need to send back mouse-click command signals, not real data.

Alternatively, as in the Castro Valley market test, communication is two-way capable using the same cable line, which obviously frees up the family phone line. But the inventory of installed two-way cable is slim, causing cable operators to hustle towards upgrading their current stock. But best prospects show uneven deployment of two-way cable over the next several years, so the cable-telephone combo may yet be the only alternative in regions where cable operators are slow to upgrade.

Unfortunately, cable companies, usually plodding, surly, and unassailable monopolies within protected regions, have been historically a one-way business, not known for high-quality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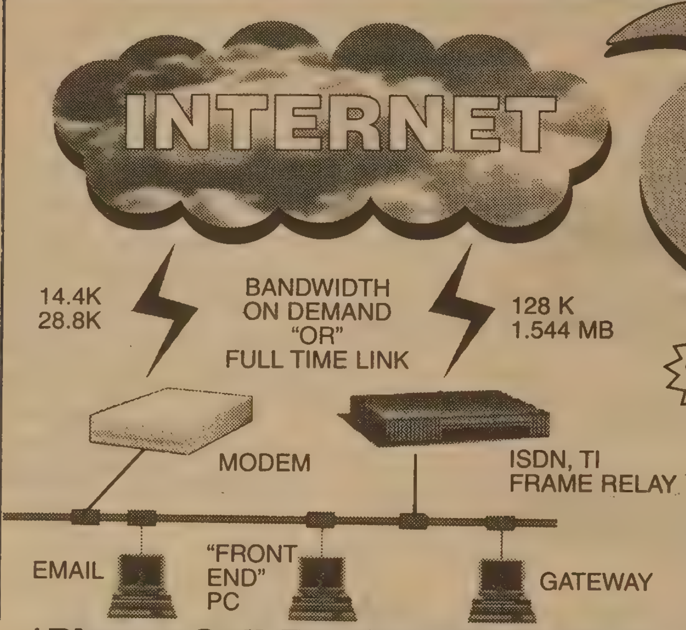

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service. The $64,000 question is whether cable can produce the required technology, pricing, skill set, and customer service mentality that can break the one-way character of its corporate culture.

The very notion of offering quite limited back-channel signal in favor of full-bore, downstream throughput is, after all, a very cable-like model. With such limited back-channel throughput, one could just as well kiss off any meaningful notion of usable interactive video, multimedia, or conferencing. To think that customers won't need serious bandwidth to send their own content over the Internet back upstream to friends and family or business colleagues is a conceit. What cable companies really mean by "interactive" is merely that you place an order.

> **Broadband** service also means faster access to the Internet using AOL's **newly integrated** Web browser, and will free up members' telephone lines while they are online.

Not that the phone companies have all of their ducks in a row by any means, especially with the mountains of low-grade copper telephone wire currently stuffed into every building and strung willy-nilly across the country.

Sure, AT&T predicts, "You will!" Yet, we answer frankly, "But when? But how?" Given the Congressional mood and the less than spectacular deployment of ISDN, a two- to three-year timeframe for cable operators to install two-way cable (for voice and data service) might not be such a long shot compared to the massive project the long-line and local phone companies have in front of them to actually produce the fibered vision they conjure with their ads. ■

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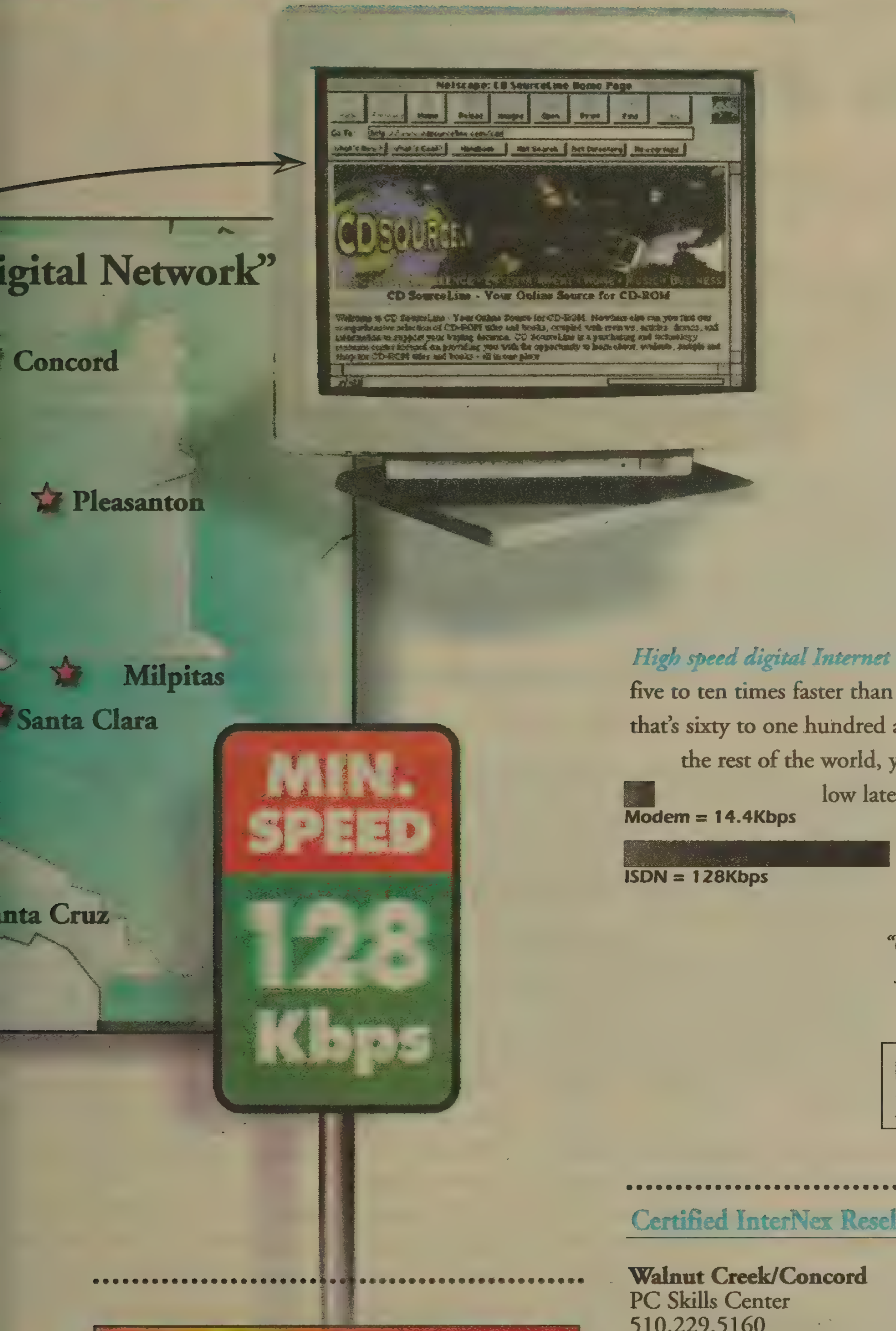
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BY EDWIN RUTSCH

Web Fever

Setting Up A Web Server With Windows NT

Every era has its boom. In the mid-1800s in California it was gold rush fever and in the 1960s it was rock and roll fever. As a person I met at a local Internet user group told me, "In the '60s people would get together and say, 'Let's start a rock and roll band,' and now they say, 'Let's set up an Internet Web server.'" The boom rush of the mid-1990s is in cyberspace and on the World Wide Web. You can hear the daily cry in the news media, "Thar's gold in cyberspace."

I find the power of the World Wide Web is that it infects people who haven't typically been interested in computers. A story I often tell about how the fever starts, is about my friends and neighbors Bob and Liz. Bob is a professional storyteller who tells tales about ecology, nature, and the Alaskan Klondike gold rush. There's nothing he likes better than to sit in the great outdoors next to a campfire telling stories to a group of enthralled children. At one point, Liz felt she needed to buy a computer as a tool for setting up a home office. Bob kept a suspicious distance from the whole computer purchasing endeavor. After Liz bought the computer I helped set it up with an Internet connection. Recently Liz told me, "Bob used to get up in the morning and first thing stagger over to the coffee machine. Now he gets up and the first thing he does is turn on the computer and that's even before he puts his pants on. He has become active on storytelling newsgroups and he's starting to take over the computer."

Perhaps like Bob and Liz, you have made the connection to the Internet and passed the beginner "newbie" stage. You have made a home page and you start to think, "I could set up my own Web server and start a business out of my home office doing this. I could create Web sites for businesses, sell products over the World Wide Web, or get into online publishing."

I recently went through the process of setting up a Web server. From my experience, setting up a basic Web server does not take much effort. What is difficult and time consuming is setting up a professional Web server. Here are some issues I had to address in setting up a high-end Web server in my home office.

Which Operating System To Use?

One of the first choices to make in setting up a Web server is which operating system to use. There are three primary choices, UNIX, Mac, and Windows. UNIX is the foundation of the Internet and a lot of new creative applications are developed first on this platform. The problem is that there are many different versions of UNIX, and coming from the PC world, I didn't want to learn a whole new operating system; so, I continued to explore the alternatives.

> The [Pac Bell] technician, who I'm sure has worked for years in the bowels of the Internet, said, "It's amazing to me that any of this stuff ever works..."

Initially, I set up a Mac Web server on a dedicated 14.4 modem connection using a Mac Quadra 800. It was an easy and relatively inexpensive endeavor, and was fine for running a low-volume Web server. The dedicated 14.4 connection cost me $85 a month and could support a maximum of two or three simultaneous user accesses at a time. That's plenty enough for many uses.

Setting up a Web server on Windows 95 is similar. However, Windows 95 is not going to cut it on the higher end. Windows won't compete against UNIX for security and networking capabilities. Since I wanted to set up a commercial and "professional" Web server, with networking features and security, I chose Windows NT Server 3.51 as my operating system.

Windows NT is a superset of Windows and has the same graphical interface as Windows 3.11. The Windows 95 interface has been promised for NT by the end of the year. NT has plenty of advantages over Windows 95—it is more stable and it supports industrial strength security, networking, and multiprocessors.

There are two versions of Windows NT to choose from, the NT Workstation and NT Server. NT Server includes extra features, such as security and networking capabilities that are needed for setting up a secure network server. Be forewarned, though: While Microsoft says NT Server runs with a minimum of 16MB of RAM, I found that after adding any serious applications, like a database, it needs at least 32MB of RAM to perform optimally.

The manuals that come with NT are a bit skimpy; you'll want to get the NT Resource Kit which contains better documentation and comes with utilities that are helpful for networking and optimizing NT.

Choosing A Web Server

In 1994, there was a shortage of Internet Web server software and applications for Windows NT. This year, 1995, there has been a steady stream of Web server and Internet-related products, and by next year I suspect there will be a flood of these products for both Windows 95

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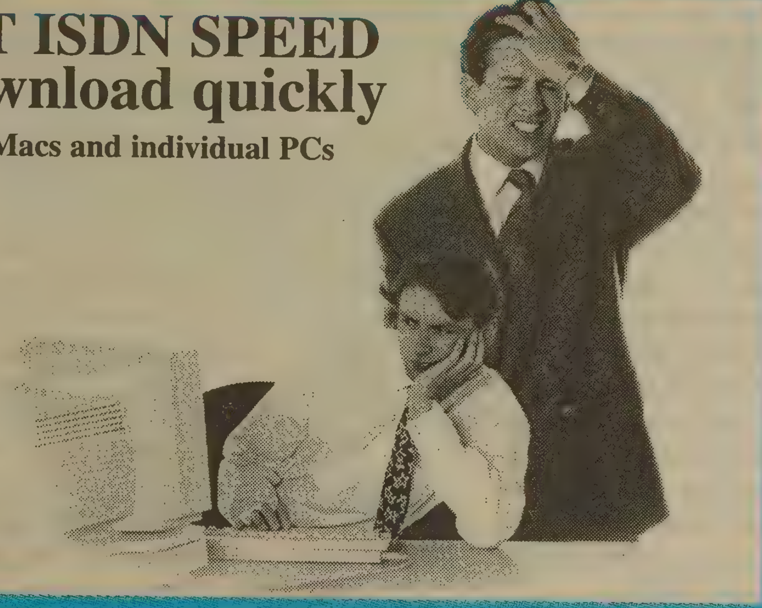

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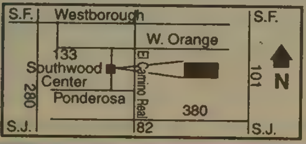

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and NT. The market is just too large to be ignored by software manufacturers.

I looked at four Web server packages. Evaluation copies of all these can be downloaded from the Web. The first to be available was EMWAC, a public domain server from the European Microsoft Windows NT Academic Centre at the University of Edinburgh in the UK. EMWAC is still available as public domain software, but not much work has been done to improve it recently. The rights to develop this software commercially were sold to Process Software, which turned it into a package called Purveyor.

Netscape has ported its Netscape Communications Server and Netscape Commerce Server from UNIX to Windows NT. The Netscape Commerce Server is presently the only server package that supports secure transactions. I tried out the Netscape Communications Server. The configuration is all done with the Netscape browser which I found a bit clunky for doing actual server maintenance.

I finally settled on using WebSite from the book publisher O'Reilly and Associates. WebSite is available for a sixty-day trial period. WebSite has the lowest price among commercial Web servers and is packed with bells and whistles. There's an image map editor and a tree-like display of all the Web pages on the server that can be used for an overview of the Web site. It also can be used to check for broken Web page links. A secure version is promised for the end of the year. Installing the Web server software was a breeze. I just followed the menu-driven installation process and after fifteen minutes or so I had the Web server up and running.

Internet Resources For Windows NT

There is a growing community of Windows NT users on the Internet with a rapidly expanding body of resources. Following is a list of resources to get you started. These Web sites will lead to still other helpful Web pages for getting your Web site up and running with Windows NT.

Microsoft

The following page, on the Microsoft Web server, contains links to client/server applications and other resources for Windows NT: *http://www.microsoft.com/BackOffice/Internet/tools.htm*

Windows NT User Groups

Several Windows NT User Groups are available on the Web. For a fairly comprehensive list of user groups:
http://www.bhs.com/cgi-win/entry.exe?14

The Interior Alaska Windows NT Users Group
http://tmg.imagi.net/nt/

The Rocky Mountain Windows NT User Group
http://budman.cmdl.noaa.gov/rmwntug/rmwntug.htm are among the best.

The Windows NT Webserver SIG has monthly "in person" meetings in downtown Berkeley. Send email to *edwinr@wyp.net* for the next meeting time and place.

Newsgroups And Listservs

Newsgroups are online bulletin boards where everyone can post a note and reply to others' postings. The main newsgroups dealing with issues related to Windows NT are: *comp.os.ms-windows.nt.misc*, *comp.os.ms-windows.nt.setup*, and *comp.os.ms-windows.announce*. Listservs are automated email forwarding systems. You send an email message to a specific email address, usually with the word "subscribe" in the subject or body of the message. When anyone sends a message to the listserv, it is forwarded to all subscribers on the list. For a directory of lists related to Windows NT topics, check *http://emwac.ed.ac.uk/html/news.html*. ■

Which Internet Connection To Use?

As I mentioned, I initially set up a Mac Web server with a dedicated modem connection. There are, however, a myriad of Internet connection options available, among them being modem connections at 14.4Kbps or 28.8Kbps, ISDN, and frame-relay.

A dedicated modem has limited access ability, but I find it is a good way to start getting some online publishing experience. ISDN lines can be a low-cost option, but the problem is that the bandwidth peaks out at 128Kbps. If your Web site becomes very popular, which is of course the goal, then you'll have to upgrade the connection and lose all the investment in ISDN equipment. For this reason I chose the 128Kbps frame-relay option. While frame-relay is initially more expensive than ISDN, frame-relay has the advantage of being scalable from 56Kbps up to full "T1" speeds of 1.53Mbps. (Note: There's a special lower-cost 56Kbps frame-relay line available but it is not scalable. I wouldn't recommend this option.)

Frame-relay calls for a big jump in technical expertise over a modem connection. I needed to: first, have a T1 line installed by the phone company, then find an Internet access provider that offered frame-relay access, and then set up an Ethernet network in my home office, as well as buy a router and CSU/DSU.

To make the connection into the Internet, I needed to choose an Internet access provider. Although access providers are popping up like mushrooms, I found most don't know about Windows and NT. They're primarily using UNIX and don't offer much, if any, support for non-UNIX users.

Using a frame-relay connection, I needed a line from my office to the Internet access provider. The only route for this was to use Pacific Bell's frame-relay service. For information on Pac Bell's Internet services and pricing, check their Web site at: *http://www.pacbell.com/Products/INT-SVCS/index.html*.

I ordered the service, which I was told would take about six weeks to install. I was a bit shocked when a fleet of phone company trucks descended on my house and started unrolling a thick black cable. Day after day, wave after wave of engineers and technicians from Pac Bell came by. First they came to evaluate the site, then to install the line; next, other technicians came out to install the T1 box and still others to make the connections.

One engineer even told me, "Caltrans is tearing up San Pablo Avenue to install your line."

"You probably don't get many T1 lines going into homes?" I asked.

"You'd be surprised," replied the engineer, "we see it more and more often."

The CSU/DSU And Router

Pac Bell brought in the T1 line which terminates at a big phone box in my garage. "This box has enough phone capacity for the whole neighborhood," I was told by the phone company technician. Off of this box there is a smaller box with something that looks like a phone jack in it. To this device, I needed to connect a CSU/DSU which in turn connects to a router, which in turn connects to an Ethernet network, which consists of two Pentium 90s and a Quadra 800.

The CSU/DSU is a sort of special modem. I used the Adtran TSU since a friend recommended it. I was going to use a Cisco 2500 route

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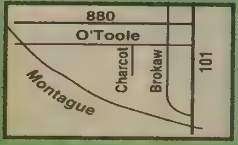

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(*http://www.cisco.com/*) since another colleague of mine works at Cisco and knows how to configure the router. But to my surprise, I found out there is a four-week delivery period for it and, even then, they wouldn't guarantee delivery. Since I wanted a router right away, I ended up ordering the Livingston Portmaster IRX 111. The Livingston was available off-the-shelf and it has a good reputation among Internet access providers for reliability and a good price/performance ratio.

The Cure For Web Fever

There's nothing like trying to get all the parts of a network working together to cure Web fever. You can tell when someone is setting up a system like this for the first time. That frazzled and desperate look in the eyes and voice gives it away. As a Windows user, I needed to learn TCP/IP, which is the language of the Internet. Then there is the NT operating system, the Ethernet network, the router, the CSU/DSU, the phone company's frame-relay line, and the Internet access provider's connection, which all have to communicate and work together in one harmonious whole.

After the T1 Line was installed, I struggled for over a week on the configurations, but it seemed more like a month. First, I had to get the router to see the network. Configuring the router was problematic since there was no Windows interface and it was all command line instructions at a UNIX prompt. The Livingston manual is cryptic and poorly laid out and geared toward the UNIX user. There was no graphical software for configuring the router, although they say a Windows tool will be available Real Soon Now.

I ended up calling the various product manufacturers' technical support people, who were actually quite helpful in assisting me in configuring their equipment properly. Finally it came down to a conference call with a Pac Bell technician and the Internet access provider. During the conference call, each of us looked into our respective computer screens trying out different configurations. The technician, who I'm sure has worked for years in the bowels of the Internet, said, "It's amazing to me that any of this stuff ever works. Oh, I see one of our technicians forgot to turn on the LMI." On that last happy note, *Voila!* Everything worked and I had my network connected to the rest of the world. My home office of the future and budding Web service business was online.

Building The Web Site

Once the equipment and line have all been installed and configured, the fun can start, for it is time to start on the ever-expanding task of building up the Web site. Most Web sites focus on a particular subject or set of subjects. I'm focusing on compiling information and links to online yellow pages-type information directories and setting up "virtual offices" for businesses. Also, a group of volunteers have come together to set up a project for our neighborhood. We are creating a clickable map of the entire twenty-two-block business district of Solano Avenue in Berkeley and Albany. There are close to five hundred businesses on the street. There's a searchable database where any business can enter information about their business and a Web page can be automatically generated. We invite you to "come by and visit" at *http://wyp.net* and see what Web fever can lead to. Maybe you'll get some ideas for setting up your own home office-based Web server. ■

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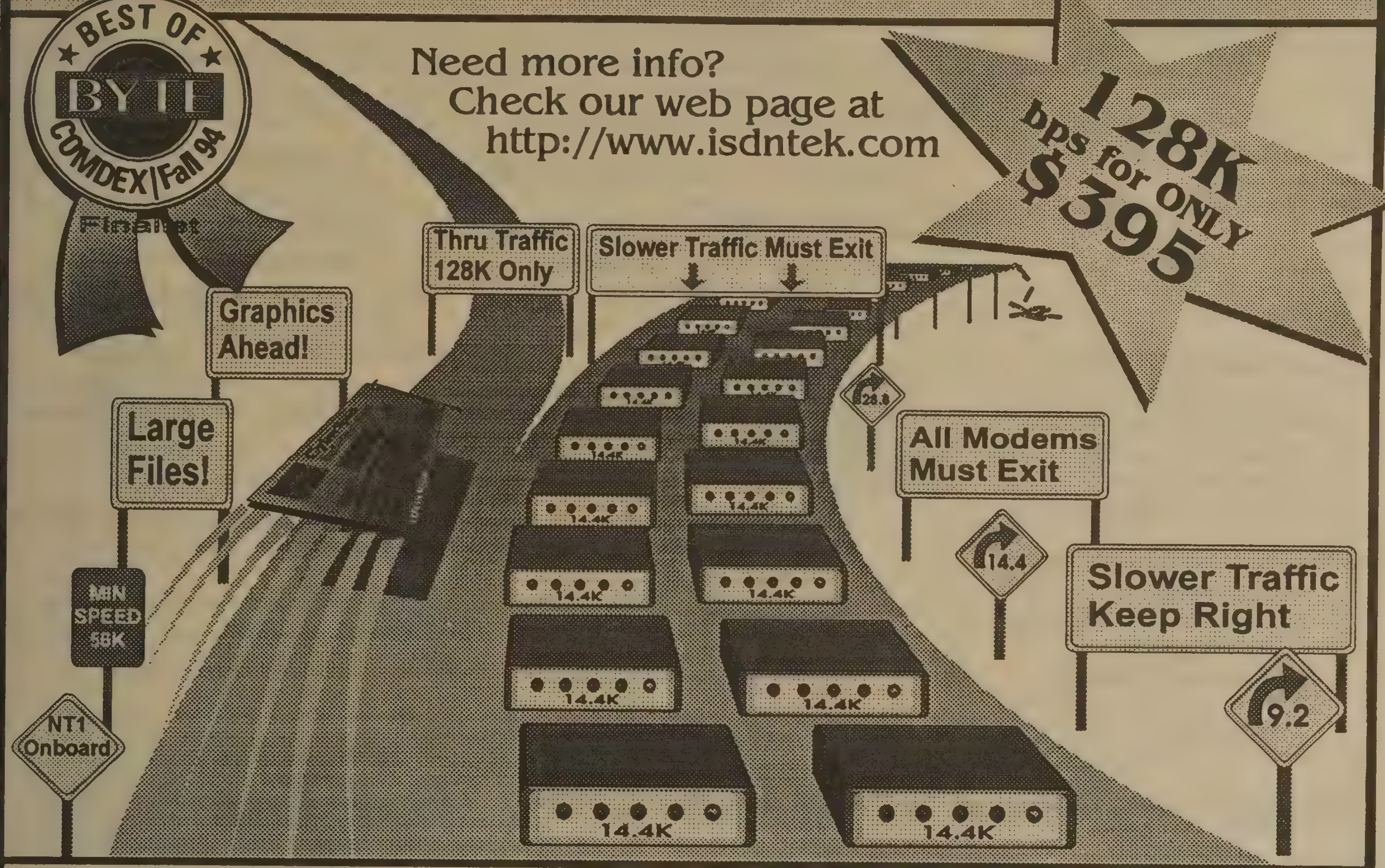
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Cisco 2500 Router
Cisco Systems
http://www.cisco.com/

Portmaster IRX 111, $2395
Livingston Enterprises, Inc.
6920 Koll Center Pkwy., Ste. 220
Pleasanton, CA 94566
1-800-458-9966, (510)426-0770
http://www.Livingston.com/

NT 3.51 Server, $700 (plus client access licenses)
NT 3.51 Workstation, $319 (plus client access licenses)
NT Resource Kit, $199.95
Microsoft Corp.
One Microsoft Dr.
Redmond, WA 98052
1-800-426-9400
http://www.microsoft.com/

Netscape Communications Server for NT, $795
Netscape Commerce Server for NT, $2995
Netscape Communications Corp.
501 E. Middlefield Rd.
Mountain View, CA 94043
(415)528-2555
http://home.netscape.com/
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http://home.mcom.com/comprod/server_central/test_drive.html

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O'Reilly and Associates, Inc.
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Sebastopol, CA 95472
(707)829-0515
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http://www.website.ora.com/

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Framingham, MA 01701
1-800-722-7770
http://www.Process.com/
Download an evaluation copy at:
http://www.process.com/prodinfo/purv data.htm

EMWAC
European Microsoft Windows NT Academic Center
Download a copy at:
http://emwac.ed.ac.uk/html/internet_tool chest/https/contents.htm

For lists of Internet Access Providers:
http://www2.celestin.com/pocia/index.html
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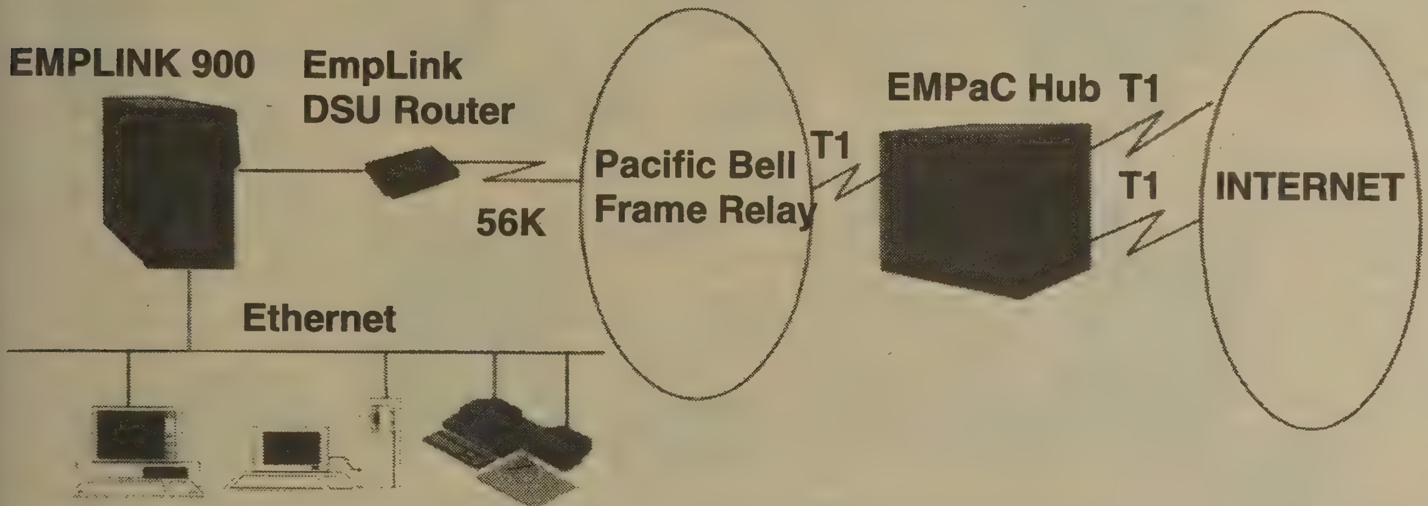

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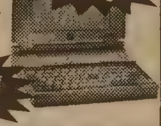

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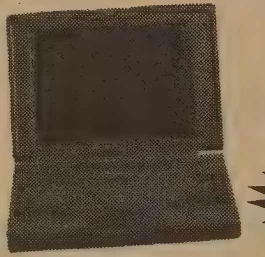

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Advantage! Adventure Series

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- PS/2 compatible mouse and AST Advantage! mouse pad.
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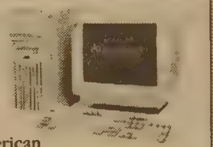

Pentium 60 8MB/540 HD 2x CD-ROM $1299

AST Premia GX Pentium 90 16MB/No Hard Drive $1499.00
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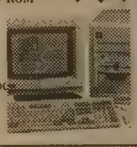

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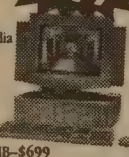

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AdultDex 95 *http://www.a1/com/tpi/index.html* Gateway to Adult Multimedia Industry. Developers, Publishers, Distributors, and Mail Order. [Exp. #146.]

Advanced Computer Products *http://www.liberty.com/home/traveller* The home of Advanced Computer Products and the online swapmeet! Also home to ACP Components. [Exp. #145.]

Advanced Logic Research *http://www.alr.com/* ALR manufactures sophisticated multi-processor network servers, high-performance workstations, and environmentally friendly personal computers. [Exp. #146.]

A Film, Pen, & Brush Conspiracy! *http://www.primenet.com/~fundi/index.html* An Afrocentric byte from the cyber gallery of graphics, photos, and stories from HATARI's Design. [Exp. #146.]

Agora Digital *http://www.agora.net/* Online service for new and traditional media, including searchable database of industry talent. [Exp. #143.]

Air Brokers International *http://www.aimnet.com/~airbrokr* Visit places around the world, online world travel newsletter, circle the globe, Asia, Pacific. [Exp. #145.]

Aircraft Spruce & Specialty Co. *http://www.aircraft-spruce.com* Aircraft Spruce is the premiere distributor of aviation supplies for certificated and home-built aircraft. [Exp. #145.]

Albin Engineering Services, Inc. *http://www.hooked.net/users/aesi/* Albin Engineering Services, a leading placement firm, has several openings for SW Engineers. [Exp. #144.]

Alps Electric *http://www.alpsusa.com/index.html* Photographs and complete specs for the most popular products of this computer peripheral manufacturer. [Exp. #145.]

Altera Corporation *http://www.altera.com* Company/product information, job opportunities for Altera (NASDAQ: ALTR), leader in high-performance programmable logic devices and CAE tools. [Exp. #142.]

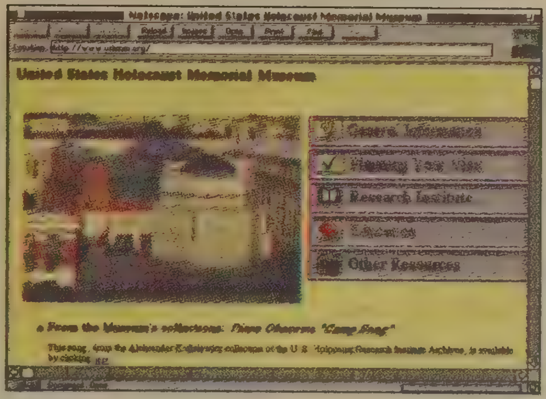
AP Research *http://www.apresearch.com* Market research reports and consulting services for PC cards (PCMCIA). [Exp. #141.]

Apartment Locators, Inc. *http://www.homefair.com/apt.aptla.html* Apartment hunting in LA and Orange County areas. [Exp. #144.]

Applied Computer Systems *http://www.apcom.com* ACS sells new and pre-owned Sun equipment. We sell parts as well as complete systems. [Exp. #146.]

Around-The-World Airfares & Adventures *http://www.highadv.com* High Adventure Travel's catalog of discount around-the-world airfares, Himalayan treks, African Safaris, etc. [Exp. #143.]

Art Indices, International *http://www.artindices.com* Commercial online gallery of contemporary art and consultation services for corporate and private buyers. [Exp. #145.]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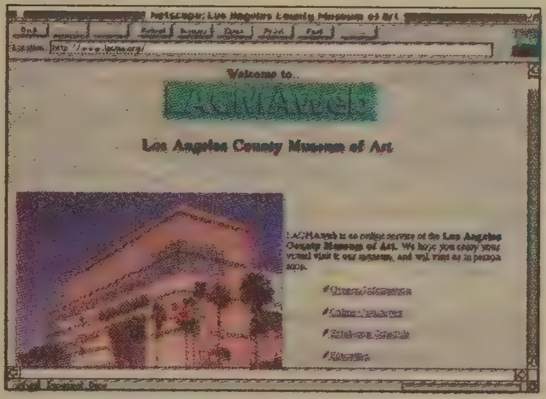
Research Institute
Other Resources

http://www.ushmm.org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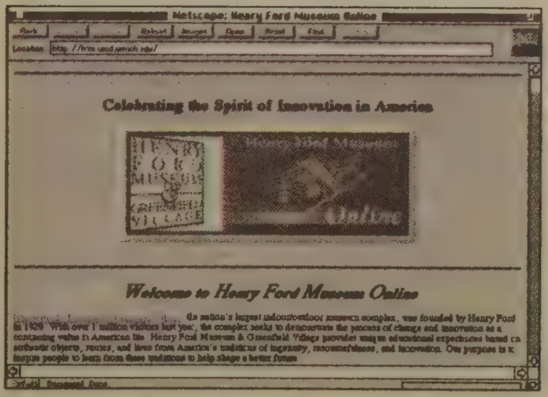
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Celebrating the Spirit of Innovation in America
Welcome to Henry Ford Museum Online

http://hfm.umd.umich.edu

Barnes & Noble in Costa Mesa *http://www.ni.net/barnes_noble* See what is happening in our store and link up with other Internet book sites. [Exp. #146.]

Bill's House Of Financial Independence *http://www.vpm.com/selfhelp* Providing business opportunities for the beginner and seasoned pro. For as little as $20. [Exp. #142.]

Braxton Indexing's Home Page *http://www.the-beach.com/bus/braxton/* Publisher of indexes in legal, scientific, and research areas. [Exp. #145.]

Buell Motorcycle Company *http://www.buell.com/buell.html* America's newest motorcycle manufacturer was formed in 1993 by Erik Buell, a former Harley-Davidson, Inc. engineer and ex-national class road racer. [Exp. #146.]

CADALYST Magazine *http://www.advanstar.com/cadalyst* Providing valuable information to visitors interested in the AutoCAD industry—includes current and classic issues of the magazine. [Exp. #146.]

Cadkey Developer's Network *http://www.cadkey.com* Makes available the Software Development Kit to Cadkey's Strategic Development Partners. [Exp. #145.]

CD Source *http://www.cdsourceline.com/cds* CD-ROM resource center, bookstore, software store, news, and reference site. Includes reviews, articles, and tips. [Exp. #146.]

Center For Electronic Art *http://www.cea.edu/* Discover the Artists' Exhibition and access up-to-the-minute information about classes, schedules, events. [Exp. #145.]

ChiPants *http://www.aonet.com/chipants/* ChiPants, the comfortable and intelligent pants for men and women, are now available on the World Wide Web. You can also email requests and questions to *chi@nbn.com* . [Exp. #145.]

ClickPic Scanning Service *http://www.netventure.com/cpc/* Scanning service offering fast, high quality, photo and document scanning with email return of images. [Exp. #146.]

Compuforms Co. *http://www.cpfc.com/compuforms* Electronic forms, continuous forms, labels, checks, and downloadable artwork. [Exp. #144.]

Computer Training Consultants *http://www.he.tdl.com/~msri/CTC1.html* Provides in-house, online and on-site software and hardware training in PC and Mac LAN environments. [Exp. #146.]

Copyright Clearance Center *http://www.directory.net/copyright* Offers an automated process for obtaining and paying for reprint rights. [Exp. #143.]

Credi-Call *http://branch.com:1080/cc/cc.htm* Use your credit card as discount calling card. Up to 90% savings on long distance. [Exp. #143.]

CyberNautix, Inc. *http://www.community.net/~nautix/* UNIX and Internet tech-

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nical services firm. System management, training, and custom services described. [Exp. #143.]

Cyboutique *http://www.romantasy.com* A unique, interactive crossroads for exploring issues, ideas, and products to enhance sexual well-being and encourage intimacy. [Exp. #145.]

Cyno Technologies *http://www.cyno.com/cyno/* Cyno Technologies, Inc. provides computer user authentication systems, including solutions for enhanced remote access security. [Exp. #142.]

Demand Systems Home Page *http://www.fishnet.net/~drumbra* Demand Systems sells computer software and hardware. They also carry the Jaguar and Lynx. [Exp. #146.]

DHL Worldwide Express *http://www.dhl.com/* Provides information on shipping services offered by DHL for all of the 217 countries that the DHL network serves. [Exp. #146.]

Digital Conversion Technology *http://navishow.ans.net/lab/m/mtownes* Sales, bids, quotations, and proposals. We search and deliver—you produce and sell. [Exp. #146.]

Digital Zone *http://www2.uplex.net/dzone/* Resource for buyers to contact vendors in the printing, advertising, service bureaus, and photography business. [Exp. #145.]

Disinfectant 3.6 *ftp://ftp.acns.nwu.edu/pub/disinfectant/disinfectant36.sea.hqx* The new release of the free anti-virus utility for the Mac. Recognizes new clone of nVIR B. [Exp. #142.]

eCesys, Inc. *http://www.alaska.net/~ecesys* Low-cost Pentium Systems optimized for NEXTstep, Win 95, and WinNT deployment. [Exp. #146.]

EIO: Electronics Information Online *http://www.wio.com/* A super surplus store. We buy and sell excess, discontinued, new, and used electronic components and computers. [Exp. #146.]

Endeavour Travel *http://www.anzac.com/endnb/endvr.html* Information and discount travel packages to Australia and New Zealand. [Exp. #142.]

Fast Forward Skate Shop *http://www.fast-forward.com/* Largest distributor of inline skates and accessories. Online guide to buying inline skates. [Exp. #145.]

FaxBox Network *http://voyager.via.net/netbiz/faxbox.html* How to have your own fax-on-demand box and make money. [Exp. #142.]

Furnituremaker And Design *http://www.channel1.com/users/postma* Steve Postma Furnituremaker and Design specializing in custom veneer and curved furniture. [Exp. #144.]

Galt Technology Shareware Zone *http://www.galt-tech.com/* The leading site for quickly and easily downloading the latest shareware from the Web. [Exp. #145.]

Genoa Technology's Web Site *http://www.gentech.com* Testing solutions for Printer Emulations, Facsimile (T.30), IrDA (Serial Infrared), IEEE 1284, and SNMP. [Exp. #146.]

Geoworks Home Page *http://www.geoworks.com* Information about Geoworks, a supplier of operating system software and applications for the emerging Consumer Computing Device market. [Exp. #145.]

Gold Mountain Land *http://www.aimnet.com/~ayl/antelope.htm* Land investment opportunities with prices starting at 30¢ per square foot. [Exp. #145.]

Great Fax Cover Sheet Co. *http://emporium.turnpike.net/W/wortB/welcome.html* Unique products at great prices. Something for everyone even if you don't fax. [Exp. #145.]

Greek Hotel And Cruise Reservation Center *http://www.deltanet.com/bazaar/greece.htm* Your link to over eight thousand Greek Hotels and Cruises covering the Greece mainland and islands. [Exp. #146.]

homepage.html *http://www.hooked.net:80/users/tpitre/homepage.html* Personal page for Pitre and MSRI, Inc. [Exp. #141.]

Homes For Sale On The Internet *http://www.he.net/~bsonder/homes.html* Have some real estate to sell? Want to increase your audience? Advertise with Homes for Sale on the Internet. [Exp. #146.]

Hotel Emeraude Plage *http://www.well.com/user/frigate* Information on the Hotel Emeraude Plage on St. Bart's in the French West Indies. [Exp. #145.]

iambic Software *http://www.iambic.com/iambic* Software for the Newton MessagePad. Contests, tips, and links to other Newton-related areas. [Exp. #145.]

Immigration And Visas *http://www.schulzlaw.com/~mschulz* Law offices of C. Matthew Schulz. Information on US visas and employment-based immigration. [Exp. #144.]

Instant $avings BBS *http://www.liberty.com:80/home/couponbbs/Welcome.html* A free BBS soon to have free Internet email and a home-based business opportunity. [Exp. #146.]

Intelligent Media *http://smartworld.com/intmedia* Full-service interactive multimedia production company, service bureau. [Exp. #141.]

International Consulting *http://www.insist.com/* Build a strong distribution/OEM channel in Europe. Fluent in German, French, and Dutch. Set up branch offices in four weeks. [Exp. #146.]

Investigative Resources *http://www.lainet.com/~factfind* The online brochure of Investigative Resources International, a full service southern California investigative agency. [Exp. #145.]

Kaua'i Exotix *http://planet-hawaii.com/~exotix/* A small tropical flower business in Kaua'i doing all of our business via the Internet. [Exp. #144.]

LinkStor Home Page *http://www.linkstor.com* PC network and storage reseller in Silicon Valley. [Exp. #143.]

LucasArts *http://www.lucasarts.com* The Web site for LucasArts Entertainment, developer and publisher of interactive entertainment and educational software. [Exp. #145.]

Marine Jewelry By Robert Straight *http://www.stw.com/rls/rls.htm* Ocean life rendered in fine gold jewelry. [Exp. #142.]

Maxsoft-Ocron, Inc. *http://www.maxsoft-ocron.com* Maxsoft-Ocron, a leader in OCR software and Toolkits. Visit us and download Wordlinx free. [Exp. #146.]

Midnight Special Bookstore Home Page *http://msbooks.com/msbooks* Midnight Special's motto is taken from Bertolt Brecht: "Hungry man, reach for the book: It is a weapon." [Exp. #141.]

Mind Logic *http://www.xmission.com/~wwwads/mind/logic.html* CD-ROM disks, hardware, and video gear at wholesale and retail prices. Worldwide mail order. Freebies too! [Exp. #145.]

Mind Science Research Institute, Inc. *http://www.he.tdl.com/~msri* Delivers management and technology training for the lifelong learner. [Exp. #145.]

Miniman *http://www.mindifarm.com/midiman* Midiman's Web site consists of over twelve pages of product and company information, and an ftp site for files. [Exp. #146.]

Mobile Access *http://www.aimnet.com/~ayl/900.htm* Learn all about investing in the lucrative 900 telephone business and what it has to offer you. [Exp. #145.]

Mole-Richardson *http://www.mole.com* Hollywood lighting manufacturer, rental company, expendables store, movie memorabilia store [Exp. #145.]

Music Boulevard *http://www.musicblvd.com* A one-stop service where customers can listen to 30-second sound samples, view album art or artist photos, read reviews or biographies, and buy from an extensive music catalog. [Exp. #146.]

Natural World *http://tlm.tlm.net/natwld.html* Natural World makes 100% non-toxic, all-natural, chemical-free products for cleaning, infant care, nutrition, and pet care. [Exp. #143.]

NetCity *http://www.netcity.com/* An electronic metropolis offering online shopping, personal and professional services, auto center, farmer's market, and entertainment. [Exp. #145.]

Newer Technology *http://www.newertech.com/* Supplier of Mac peripherals and memory products. Grouped into four categories: acceleration, connectivity, memory, and PowerBook accessories. [Exp. #146.]

Novell Service & Support *http://www.aimnet.com/~yungi/lansol.html* Novell network specialists—CNE. We offer Novell-authorized network installation, service, and support. [Exp. #143.]

NTI Of California *http://www.net101.com/nti/* Performance, quality, and value with California's premiere long distance service for businesses and residents. [Exp. #145.]

O'Keefe World *http://www.okeefe.com* O'Keefe World is a full-service advertising agency. Bandwidth busting graphics. Idiotic image maps. All style, no substance. [Exp. #146.]

Online Islamic Bookstore *http://www.sharaaz.com* Quality books, CD-ROMs, tapes, software on Islam. View screenshots and descriptions of products. Order online. [Exp. #143.]

Pacific International *http://www.pacintl.com/pacintl/* Specializing in Japanese/English internationalization (bid or contract). We are multi-platform capable. [Exp. #146.]

Palookaville Hats *http://www.primenet.com/~hanibal/hat.html* Cool hats for the Global Village Idiot in all of us. [Exp. #141.]

PCTravel *http://www.pctravel.com or http://www.nando.net/pctravel.html* Real-time online air reservation and ticketing service with encryption and free overnight delivery of tickets. [Exp. #143.]

Photo Restoration, Retouching, & Scanning Service *http://www.wp.com/PhotoRestoration* Highest quality and lowest prices for digital photo restorations. Quick turnaround, too. [Exp. #145.]

Rational Data Systems *http://www.rds.com* Just the basics so far, including employment and WWW contracting opportunities. Fancier stuff to follow. [Exp. #144.]

Recorter, Inc.'s Business Center *http://www.industry.com/* Industrial rack mount computers, enclosures, keyboards, monitors, and printers. Web site includes descriptions and data sheets. [Exp. #146.]

Regent Press *http://www.sirius.com/~regent* A printer in Berkeley and publisher of *The Oracle* (Facsimile Edition) and *The Fringe Series*. [Exp. #144.]

Robert Lee Entertainment (RLE) *http://www.rle.com/~rle/index.htm* RLE is an independent film, video, and WWW page production company. [Exp. #144.]

Safeware, The Insurance Agency, Inc. *http://www.safeware-ins.com/* Insures computers against theft, fires, power surges, accidents, natural disasters, and earthquakes. Review details and apply. [Exp. #146.]

Salsa Express *http://www.stw.com/se/se.htm* Southwestern culinary catalog. One-stop shopping for your salsa and hot sauce needs. [Exp. #142.]

Secret Staircase Bookshop *http://www.secretstaircase-*

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Desktop of the Month: Ready for Windows '95

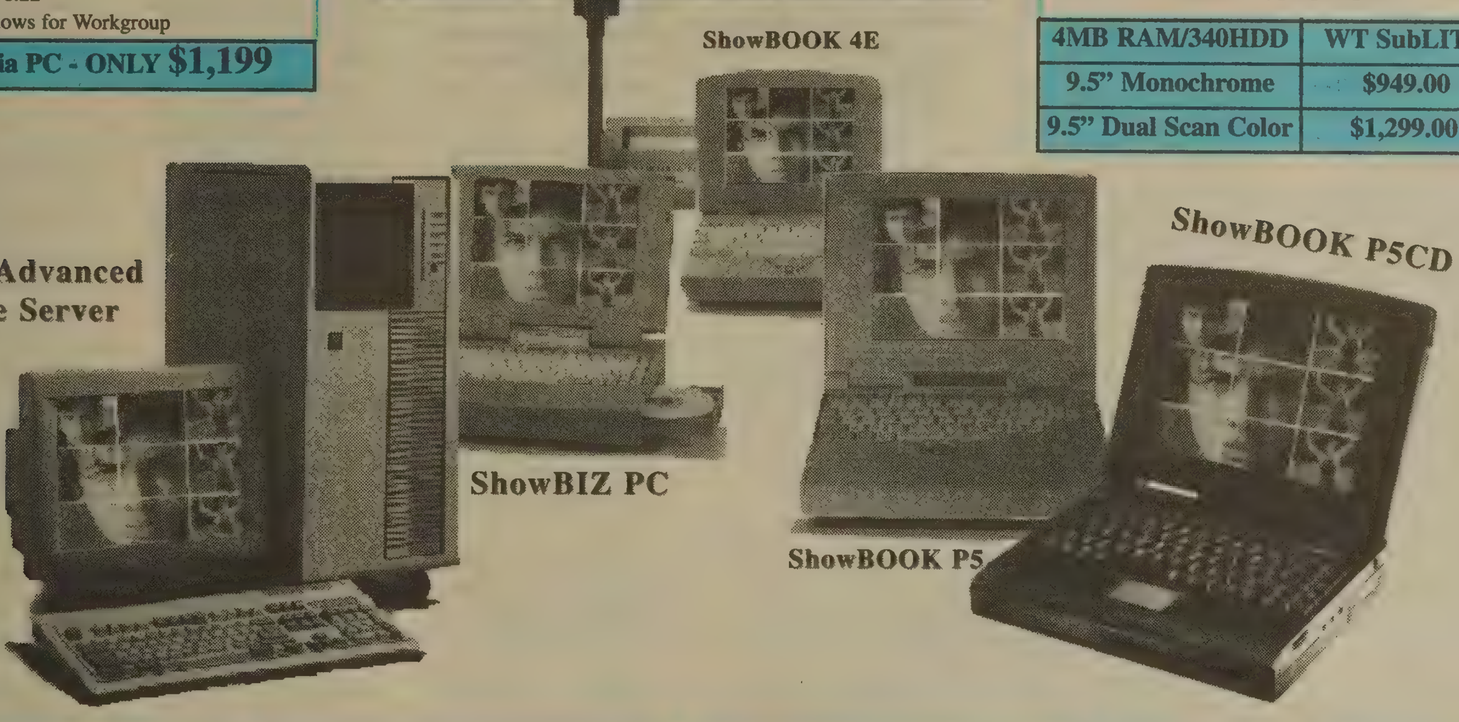
- 66MHz 486 DX2 Processor
- 4MB RAM Expandable to 128MB on-board
- 540MB Hard Disk Drive
- 1.44MB 3.5" Diskette Drive
- Enhanced Windows Accelerator with 1MB Video
- Enhanced IDE with 16550 UART and EPP/ECP
- Dual Speed CD-ROM
- 14" Super VGA 0.28 Non-Interlaced Monitor
- 16-bit Sound card with MIDI Hi-Fi Synthesizer and Speaker
- 14.4 Send/Receive Fax/Modem
- 101 Enhanced Keyboard
- Ergonomic Mouse
- Microsoft DOS 6.22
- Microsoft Windows for Workgroup

Multimedia PC - ONLY $1,199

Special of the Month: Wedge SubLite Notebook

- Weighs only 3.9 lbs.
- 4 Hours Battery Life
- Large Dual Scan Color Display
- 4MB installed expandable to 12MB
- 340MB Hard Disk Drive
- Simultaneous LCD/CRT
- Trackball with Palm Rest
- Removable NiMH Battery
- Advanced Power Management
- External Floppy Drive
- Carrying Case
- Serial, Parallel, Keyboard and Mouse ports
- Built-in Adjustable Typing angle

4MB RAM/340HDD	WT SubLITE
9.5" Monochrome	$949.00
9.5" Dual Scan Color	$1,299.00



ShowBIZ for OHP Presentation

- Multimedia PRESENTATION Notebook w/ removable backlit panel for use with over head Projection (DS & AC Models)
- Upgradable CPU (SX/DX/DX2/DX4-100)
- 4MB RAM Expandable to 32MB
- Removable 1.44MB FDD - replaceable for a 2nd battery pack giving 6 hours battery use
- Replaceable 340/520/810MB/1.3GB HDD
- True 32-bit VESA Video and IDE Adapter
- Type III PCMCIA Slot
- Built-in Sound Chip with Mic & Speakers
- Built-in Trackball with Palm Rest
- NiMH Battery and Carrying Case
- Fast 16550 Serial, EPP/ECP Parallel Port
- Size: 11.2"(w) x 9.0"(d) x 1.8"(h), 6.4 lbs.
- Optional Remote Control with software to create special effects for presentation
- FREE OHP Presentation Kit - a $250 Value. Promotion ends 09/30/95.

340MB Hdd	DS Color	TFT Color
486-66DX2	$ 2,925	$ 3,749
486-100DX4	$ 2,995	$ 3,899

ShowBOOK 4E - 486 Multimedia

- Multimedia 486 Notebook (MO/DS/AC)
- Upgradable CPU (SX/DX/DX2/DX4-100)
- 128Kb Cache and up to 36MB RAM
- TRUE 32-bit VESA Local Bus
- PCMCIA Type IV slot (Equivalent to 1 Type III and 1 Type II Slots combined)
- Built-in Audio Chip, Mic., & Speaker
- Removable HDD (340, 520, 810MB, 1.3GB)
- Two Hot Swap NiMH Batteries
- Built-in 25mm Trackball with Palm Rest
- 128KB Flash ROM w/ Advanced Power Management
- 3.5" 1.44MB Floppy Drive
- Luxury Carrying Case
- Optional Easy Docking Station
- Optional VESA Local Bus multimedia Docking Station with Built-in Stereo Speakers, 2 x 16-bit full size ISA slots and 2 x 32-bit VESA Local Bus slots.

340MB Hdd	Mono	DS Color
486-66DX2	$1,390	$1,810
486-100DX4	$1,470	$1,890

ShowBOOK P5 - Pentium PCI

- Multimedia Pentium Notebook (DS/AC)
- Pentium 75/90MHz Processor
- 256KB BURST Cache, 8MB up to 40MB RAM
- 64-bit Memory Data Path
- PCI Video and Enhanced IDE Controller
- PCMCIA Type III or Two Type II Slots
- Built-in Audio, Mic and Stereo Speakers
- HDD options of 340, 520, 810MB
- Built-in Trackball with Palm Rest
- 128KB Flash ROM
- Advanced Power Management
- 1MB VRAM provides 1024x768x256 colors
- 3.5" 1.44MB Floppy Drive
- Fast 16550 Serial, EPP/ECP Parallel Port
- Infra Red Wireless Interface for wireless printing and data transfer
- NiMH Battery
- Carrying Case
- Optional Multimedia Docking Station w/ Built-in Stereo Speakers & Expansion slots

340MB Hdd	DS Color	TFT Color
P5-75	$ 2,499	$ 3,499
P5-90	$ 2,599	$ 3,599

WT ShowBOOK P5CD - CD-ROM

- Multimedia Pentium Notebook w/ CD-ROM
- Pentium 75/90/100/120MHz Processor
- 256KB Cache and 8MB up to 72MB RAM
- PCI Video and Enhanced IDE Controller
- PCMCIA Type III or Two Type II Slots
- Built-in Audio, Mic and Stereo Speakers
- Removable 340, 520, 810MB, 1.3GB HDD
- Built-in GlidePoint with Palm Rest
- 256KB Flash ROM w/ APM
- 2MB VRAM provides 1280x1024x256 colors
- 3.5" 1.44MB FDD Exchangeable for TV Tuner or Video Capture Module
- Fast 16550 Serial, EPP/ECP Parallel Port
- Built-in Gamepad and MIDI/Game port
- Infra Red Wireless Interface
- Over 6 Hours battery life w/ Super Battery pack
- Optional Smart Battery and AC/DC Module
- Graphical System Status LED
- 800x600 Resolution on 11.3" Dual Scan model

340MB Hdd	DS Color	TFT Color
P5-90	$ 2,995	$ 3,450
P5-100	$ 3,145	$ 3,600
P5-120	$ 3,495	$ 3,950

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Web Page Listings *continued...*

books.com/ An independent bookshop specializing in children's books and mysteries for adults. [Exp. #146.]

Secrets Of Home Theater And High Fidelity *http://www.sdinfo.com/* Electronic magazine on home theater and high fidelity with reviews of equipment, feature articles, press releases, etc. [Exp. #145.]

Sextant *http://mind.net/wsirota/sextant/sextant.html* Distribution site for Sextant, shareware program that presents an environment for editing and using Netscape Navigator's bookmarks. [Exp. #145.]

Shamrock Base Corp. *http://wavenet.com:80/~shamy/* Offering base materials used in road construction and a downtown, L.A. concrete/asphalt dump site. [Exp. #146.]

Solomon Software *http://www.solomon.com/* Solomon's home page offers a single point of communications to resources within Solomon Software, a leading accounting software developer. [Exp. #145.]

Solutions Seminars *http://www.sol-sems.com* Seminars for technical communications specialists in the development of technical information products, marketing materials, technical training materials. [Exp. #145.]

Songwriting Consultants, Ltd. *http://www.earthlink.net/~songmd/* Hit songwriter Molly-Ann Leikin helps good songwriters become hit songwriters. Check out her Songwriter's Collaboration Network. [Exp. #144.]

Southwest Airlines *http://www.iflyswa.com/* Complete flight and fare info in a very easy-to-use format, make reservations online. [Exp. #145.]

Stop Crime, Become A Tough Target *http://www.catalog.com/borelent* Personal protection devices. Stun guns, pepper sprays, alarms, crime prevention reports, and much more. [Exp. #145.]

Superior Stamp & Coin *http://www.amark.com/amark* Conducts auctions of individual/estate consignments of stamps, coins, manuscripts, fine arts, sports and space memorabilia. [Exp. #146.]

TLC, The Eye Center *http://www.laservision.com/TLC* The first Internet site dedicated to clinical excellence in Laser Vision Eye Correction. [Exp. #146.]

Tubz *http://www.opendoor.com/Tbuz/TubzHmPage.html* The largest selection of jetted and nonjetted bathtubs on the West Coast. [Exp. #146.]

Walnut Creek CDROM *http://www.cdrom.com* Publisher of over 50 CD-ROM titles and host of the busiest ftp site on the Internet. [Exp. #141.]

Warp California, Inc. *http://www.warp.com/* Producers of Virtual Television products, site includes product demos. [Exp. #145.]

Web Books—Online Bookseller And Special Services *http://www.primenet.com/~jculp/* Online bookseller with specialties in the areas of sexuality, censorship/conspiracy, and sports. Special free services. [Exp. #142.]

Windjammer Barefoot Cruises *http://www.windjammer.com* Offers descriptions of each ship in the fleet, plus a "News and Specials" section and FAQ about Windjammer. [Exp. #146.]

Working Assets *http://www.wald.com/wa/wald* Working Assets provides ways for customers to be effective citizens and philanthropists. [Exp. #146.]

World Shopping & Information Network *http://www.wsin.com* Features brilliant colorful graphics to excite and entertain. Shopping, travel, entertainment, useful resource information, more. [Exp. #145.]

WovenHearts *http://www.wovenhearts.com/* Residential assisted living. Alternative to nursing home care for older men and women. [Exp. #145.]

(x)faktor Design *http://sfaktor.com/xfaktor* Specialized in traditional and electronic design implementation, including advertising, Logo, publication layout, and web page design. [Exp. #146.]

Zendex Corp. *http://www.zendex.com/* Zendex designs and manufactures microcomputer boards, systems, peripherals, and related products for the Multibus and PC Bus industry. [Exp. #145.]

BUSINESS INFORMATION

Astro-Temp *http://voyager.via.net/netbiz/atemps.html* High-paying "temp" jobs available now by astrological sign. [Exp. #141.]

AttorneyNet *http://www.artoneynet.com/* An international resource for locating an attorney, including an extensive list of Internet legal sites. [Exp. #146.]

BayNet Real Estate *http://www.baynet.com/re.html* The Bay Area real estate site. Enter ads for free, search through hundreds of listings. [Exp. #141.]

Career Network Magazine *http://www.earthlink.net/careernet/* Online publication of the Career Network's CD-ROM magazine—informative articles, employment classifieds, resumes of hundreds of job seekers, and color display ads. [Exp. #146.]

Consumer Mortgage Information Network *http://www.human.com/proactive.index.html* Dedicated to providing home buyers with timely and unbiased information relating to residential financing. [Exp. #145.]

Copyright Website *http://www.benedit.com* A practical copyright resource for netizens and Webmasters. Includes audio of famous copyright infringements [Exp. #145.]

Credit Union Land *http://www.culand.com* A searchable index of credit unions you can join! [Exp. #145.]

EE/CS Mother Site *http://www-soe.stanford.edu/soe/ieee.eesites.html* Links to EE/CS corporations, organizations, and schools. [Exp. #146.]

Employment Home Page *http://www.nscnet.com/job001.htm* Dedicated to providing the best links to employment resources across the Internet. Updated daily. [Exp. #145.]

Employment Today *http://204.188.129.2/netbiz/employ.html* High-paying permanent and temporary jobs available now, plus agency listings. [Exp. #142.]

Home Owner's Page *http://www.weblink.com/homeowners/* A directory of contractors, plumbers, electricians, gardeners, and other professionals offering services to home owners. [Exp. #144.]

@Home PC-Biz Info *http://www.earthlink.net/~mspcbiz/* Make Money with Your PC! author, Ms. PC-Biz, gives hints, success stories, and advice. [Exp. #146.]

Incorporate In Tax Free Nevada *http://deltanet/com/bazaar/nevada.htm* Create a safe environment for you and your online company. Judgement proof and reduce your tax liabilities. [Exp. #146.]

IndustryNET *http://www.industry.net* Keeping in touch with the computer industry. Product and service information including local suppliers. [Exp. #145.]

Just Computers! *http://www.businessl.com/justcomp/* Online catalogue of Linux distributors, Linux books, Internet books, Linux applications, and more. [Exp. #146.]

National Center For Employee Ownership *http://www.esop.org/~nceo* Provides information on employee ownership in the US and elsewhere and lists publications and events. [Exp. #142.]

Network World *http://voyager.via.net/netbiz/network.html* The international directory of MLM and network marketing opportunities. [Exp. #141.]

NewWEB *http://www.m2.com/nw.html* World news, updated throughout the day, with an emphasis on computing, communications, and high tech. [Exp. #145.]

NTA Tour And Travel Shoppe *http://www.travelfile.com/ntatours* For information on packaged leisure travel products. [Exp. #146.]

R.E.InfoNet—Real Estate Information Network *http://www.reinfonet.com/* An excellent resource for both buyer and sellers. Articles as well as homes for sale. [Exp. #146.]

Resumes Online *http://voyager.via.net/netbiz/resumes.html* The place for job seekers to tell the world market of their availability. [Exp. #141.]

rTs Computers Systems Home Page *http://www.rtscomp.com/~pouncy/* Designed to help local users find businesses in the community. [Exp. #146.]

Saludos Career Web *http://www.hooked.net.saludos/* Devoted exclusively to promoting Hispanic careers and education, supported by *Saludos Hispanos* magazine. [Exp. #146.]

The Syndicate *http://www.centcon.com/~billman/syn.html* Devoted to helping those who seek financial information. Many articles, pointers to other investment information sites. [Exp. #142.]

TechExpo WWW Directory Of Hi-Tech *http://www.techexpo.com/* Directories of: science, engineering societies; technical/engineering trade magazines; high-tech firms, products, services; much more. [Exp. #145.]

Television Careers *http://www.bookfair.com/welcome/televisioncareers* Describes net insider's guide to landing a job in television. Includes sample chapter. [Exp. #146.]

The Virtue Of Selfish Investing *http://www.value.net/~vsi* Newsletter service for growth stock investors—annualized 34.5% year returns from 1/91–6/95. [Exp. #146.]

Tradenet *http://voyager.via.net/netbiz/tradenet.html* The international directory of world trade opportunities and offerings. [Exp. #141.]

TravelEZ *http://www.travelez.com* TravelEZ is a comprehensive resource of travel and leisure information on the Web, from airlines to hotels. [Exp. #145.]

What's New In Travel *http://voyager.via.net/netbiz/travel.html* The place to get "freebies," info, discounts, and hot travel deals. [Exp. #141.]

Windows95 Annoyances *http://ocf.berkeley.edu/~daaron/win95ann.html.* A forum for Windows95 users with helpful tips to overcome some of the minor annoying limitations and design flaws. [Exp. #145.]

ENTERTAINMENT

Aloha Dateline *http://www.aimnet.com/~ayl/aloha.htm* "I found love on the Aloha Dateline! It's a fun, safe, exciting way to meet!" [Exp. #145.]

Astrology By Moonlight *http://voyager.via.net/netbiz/astrol.html* Monthly personal horoscopes and astrological information. [Exp. #141.]

ATP Tour Online *http://atptour.com* The most comprehensive tennis Web page on the Internet, with news and information about men's pro tennis. [Exp. #145.]

Awesome Music Site *http://emusic.com* Music information, superfast browsing, 40,000 album images. Tons of fun. [Exp. #145.]

Bay Area Movie Guide *http://www.movietimes.com* Bay Area Movie Guide offers movie listings, information, reviews, links to movie company Web sites, videos, sound clips, publicity photos, and general cinema information. [Exp. #144.]

Big Mouth Publishing *http://www.bookfair.com/publishers/bigmouth/biz/* Publishers Page featuring audio "Instant Guts!", guide to intelligent risk tak-

Versatile Features, Extraordinary Performance, Sleek Design, Always Reliable

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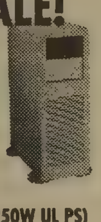

Dual cooling fans, easy access swing open side doors. Slide'n snap drive rails, 5 exposed and 2 hidden drive bays, UL-listed power supply

Full size:
$120 ~~$140~~ (w/250W UL PS)
$140 ~~$160~~ (w/300W UL PS)
Med size:
$110 (w/250W UL PS)

MONITOR SALE

TVS VGA MONO

9" VGA Mono	$109

ADI SVGA NI GREEN

15" 1280x1024 .28	$369
17" 1280x1024 .28	$625

GVC SVGA NI GREEN

14" 1024x768 .28	$215
15" 1280x1024 .28	$325

IMPRESSION NI GREEN

14" 1024x768 .28	$215
15" 1280x1024 .28	$325
17" 1280x1024 .28	$625

SHAMROCK NI GREEN

15" 1502 1280x1024 .28	$325
17" 1703L 1280x1024 .28	$555
17" 1702L 1600x1280 .26	$678
20" 2002L 1600x1200 .28	$1230
21" 2102L 1600x1280 .28	$1550

SONY NI GREEN

15" 15SF 1280x1024 .25	$469
17" 17SF 1280x1024 .25	$849
20" 20SF 1280x1024 .30	$1825

CONTROLLER CARDS

ADAPTEC CTR SALE

1542CF SCSI-2 ISA w/o Kit	$165
2842A SCSI-2 VLB w/o Kit	$199
2825 IDE/SCSI/IO w/Kit	$155
2940 SCSI-2 PCI w/Kit	$225
2940W SCSI-2 PCI w/KIT	$285

TEKRAM CACHE CTR

DC-600T ISA/IDE	$107
DC-620B EISA/IDE	$125
DC-320 EISA/SCSI	$125
DC-800 ISA/SCSI	$165
DC-800B ISA/SCSI w/1MB	$195
DC-820 EISA/SCSI	$325

MODEMS

2400 Modem	$18
96/24 Fax/Modem	$28
14.4K Fax/Modem	$44
14.4K Fax/Modem (Ext/Pocket)	$80/99

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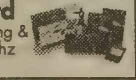
	486G2 VLB	486 G3N NEW! (GREEN) VLB	486 G3I NEW! VLB/IDE-IO	486 VIP NEW! PCI/VLB	586 VIP P54C PCI/VLB	586 TRITON-CY NEW PCI/IDE-10
Chipset	Contaq (Cypress)	Contaq (Cypress)	Contaq (Cypress)	Contaq (Cypress)	Contaq (Cypress)	Intel Triton
BIOS	AMI	AWARD	AWARD	AWARD (Flash BIOS Optional	AMI (Flash BIOS Optional)	AMI BIOS
Voltage	5V	5V, 3V	5V, 3V	5V, 3V	3V	3V
Energy Saving	NO	YES	YES	YES	YES	YES
Processors (SX/DX/DX2)	All Intel/AMD(5V) Cyrix (M7 Series) 486 33/50/66 MHz	All Intel/AMD Cyrix (M7 Series) 486 50/66/80/100/120 MHz	All Intel/AMD Cyrix (M7 Series) 486 50/66 80/100/120 MHz	All Intel/AMD Cyrix (M7 Series) 486 50/66/80/100/120 MHz	INTEL Pentium 75/90MHz 100/120MHz 132MHz	INTEL Pentium 75/90/100/120 132/150MHz
Max. Memory	128MB (30 pins)	128MB (72 pins)	128MB (72 pins)	128MB (72 pins)	128MB (72 pins)	128MB (72 pins)
Max. Cache	256K	1MB	1MB	1MB	512K	1MB
Expansion Slots	2 VESA BUS 6-16 bits ISA BUS	3 VESA BUS 5-16 bits ISA BUS	2 VESA BUS 6-16 bits ISA BUS *EIDE & Two 16550 I/O	3 PCI BUS 1 PCI/ISA BUS 4-16 bits ISA BUS 2 VESA BUS	3 PCI BUS 1 PCI/ISA BUS 4-16 bits ISA BUS 2 VESA BUS	3 PCI BUS 3-16 bits ISA BUS 1 PCI/ISA Shared *EIDE & Two 16550 I/O
CPU Socket	Ziff (overdrive)	Ziff (overdrive)	Ziff Socket 5	Ziff (overdrive)	Ziff Socket 5	Ziff Socket 7
Bus Master	2 Slots	3 Slots	2 Slots	6 Slots	4 Slots	4 Slots
Dimension	8.7"x11"	8.7"x11"	8.7"x11"	8.7"x11"	8.7"x13"	8.7"x11"
Sale Price w/256K Cache	~~$128~~ $119	~~$138~~ $134	~~$180~~ $139	~~$158~~ $145	~~$258~~ $199	~~$235~~ $258/298

MEDIA MAGIC ISP-16 Audio Board



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Multimedia Kit	Call

CPU'S

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486DX4-100MHz	$195
486DX2-66MHz	$119
486DX-25/33/50MHz	$80/90/140
486SX-33	$74

AMD

486DX4-100/120 (3V)	$99/179
486DX2-80MHz (3V)	$78
486DX2-66MHz (3V)	$66
486DX-40MHz (5V)	$92

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	344MB	520MB	810MB
MONO	$1395	$1495	$1675
Dual Scan	$1625	$1725	$1905
Active Color	$2275	$2375	$2555

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Ultra Pro 2MB-D Mach-64 PCI/VLB	$182/182
Ultra Pro 2MB-V Mach-64 PCI/VLB	$264/264
Pro Turbo 2MB Mach-64 PCI/VLB	$325/327
Pro Turbo 4MB Mach-64 PCI/VLB	$509/511

DIAMOND

Stealth 64 2MB DRAM PCI/VLB	$157/159
Stealth 64 2MB VRAM PCI/VLB	$266/268
Stealth 64 4MB VRAM PCI	$398

ORCHID

Fahrenheit 64 IMB/2MB	$119/175
Kelvin 64 Win. Accel. 1MB PCI/VLB	$119/121
Kelvin 64 Win. Accel. 2MB PCI/VLB	$175/177

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Mini/Med Tower Case w/PS	$34/49
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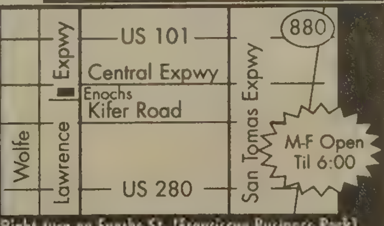

Right turn on Enochs St. (Franciscan Business Park)

Web Page Listings *continued...*

ing in business, creativity, relationships. [Exp. #146.]

BONG Bull *http://www.au.com/bong/* Weekly encyclical of the Burned-Out Newspapercreatures Guild. Newsroom humor for journalists and media junkies. [Exp. #146.]

Brazilian Mail *http://www.BrazilianMail.com/Brazil* The first Brazilian commercial site, art gallery, business center, newsstand, travel agency, and more. [Exp. #144.]

Burn:Cycle *http://www.burncycle.com/* Explore the wicked world of Burn:Cycle. Use your brain or lose your mind. [Exp. #146.]

Buzznet Magazine *http://www.hooked.net/buzznet* An SF-based online cultural Web magazine capturing colorful, fresh images, words, and sounds constantly. [Exp. #141.]

CDworld: Largest Internet Discount Music Store *http://cdworld.com* Discount music store with over 100,000 major and independent label music CDs and videos. Ship worldwide. [Exp. #141.]

Ceolas Celtic Music Archive *http://celtic.stanford.edu/ceolas.html* Home of Celtic music on the Net, including tunes, artist profiles, sound samples, resources, etc. [Exp. #143.]

CGC Polar Sea *http://www.compumedia.com/~jef* Extensive graphics covering last summer's expedition to North Pole and latest Deep Freeze to Antarctica. [Exp. #141.]

Classic Rock All Stars *http://www.webcom.com/~gsmmedia/crastars* Members from Iron Butterfly, Rare Earth, Sugarloaf, and Spencer Davis Group present their Summer '95 Tour. [Exp. #144.]

Crystal Rain Media Entertainment *http://www.earthlink.net/~crystal* "Hip Hop Animal Rock," award winning aerobic video for children. Sound and video clips. [Exp. #144.]

Cybercize With The CyberSet *http://www.physics.sfsu.edu/grad/lwilliam/cyberset/cyberset.html* Ten fun and easy at your computer exercises with the Cyber-Set—an online comedy team. [Exp. #145.]

Cybertown *http://www.cybertown.com/cybertown* Cybertown is a 21st century off-world electronic virtual community that provides a rich mix of entertainment, information, and commerce. [Exp. #145.]

Cybertzara *http://www.webcom.com/~cybertza/* Multimedia by Deborah Jaffe's Master/Slave Relationship and her new CD-ROM, Smut Picture Racket. [Exp. #146.]

Discover Starving Artists *http://www.starving.com/* An interactive art gallery featuring photography and paintings plus a tour of 19th century Paris. [Exp. #145.]

EDGE Home Page *http://www.well.com/www/edgehome* Home page of EDGE, leading interactive entertainment publisher of *EDGE* magazine and EDGE games. [Exp. #141.]

Edward "Equaliser" Woodward *http://www.deltanet.com/bazaar/equalize.htm* Information and enthusiasts' group. Stay up to date with other fans, the Eq/EW International Bullet, and more. [Exp. #146.]

Enzian Theater *http://magicnet.net/enzian/* Home page of Enzian Theater, film center for Central Florida: special event info, film-related links. [Exp. #141.]

Film Analyst On-Line *http://www.kaiwan.com/~stussy/taussig/film01.html* A thoughtful analysis of popular and classical movies and the impact on popular culture. [Exp. #142.]

FLASHERS *http://www.cais.com/artcomic.flashers/html* Daily comics by Elliot Feldman. Bring your own trenchcoat. [Exp. #146.]

Freehead Web Page *http://wl.iglou.com/ngsippel/freehead.html* New band featuring Jim Smith of the original *Ren & Stimpy Show*! Info, gig schedules, etc. [Exp. #145.]

Freshly Baked Cooked Book *http://www.primenet.com/~freshly/* L.A.-based psychedelic blues/funk/jazz/reggae/bluegrass/punk bank. This site contains artwork, lyrics, sound clips and recipes. [Exp. #146.]

Galaxy Entertainment Network *http://www.power.net/galaxy* Providing entertainment information, showcasing worldwide talent, business opportunities, programming, and weekly Internet funnies. [Exp. #142.]

Gigaplex *http://www.gigaplex.com/wow* A whopping arts & entertainment webmagazine featuring film, TV, music, theater, books, and celebrity interviews. [Exp. #144.]

Harmony Central Music Pages *http://harmony-central.mit.edu/* Resources and links for the musician, including guitar, bass, effects, MIDI, keyboards, software, and more. [Exp. #142.]

Hotel California *http://kincyb.com/* Check into the friendliest hotel in the West. Full of Internet games, 24 hrs. chat, and adult files. [Exp. #144.]

Idea Futures *http://if.arc.ab.ca/IF.shtml* Bet on 150+ science, computer, and social controversies. Won major prize for best Web site. [Exp. #145.]

Interactivist/Go Digital Online *http://www.godigital.com Go Digital Interactive Magazine*'s home page: preview of CD-ROM, additional materials, subscribe, send stuff for inclusion, etc. [Exp. #141.]

International Channel *http://www.I-channel.com* Unique multicultural, interactive, multimedia experience combining video, audio, and animation. [Exp. #145.]

International Home Exchange Network *http://www.magicnet.net/homexchange* Listings of home exchange opportunities, local cost vacation rentals, Bed & Breakfasts, "mom and pop" hotels, and more. [Exp. #143.]

Irvine Harvest Festival 95 *http://www.deltanet.com/bazaar/harvest.htm* Festival activities, entertainment schedules, festival map, and discount coupon to the festival. [Exp. #146.]

K-Fone's Hot Interactive Voice BBS And Party Place *http://www.kfone.com/* Browse men and women throughout Southern California. Contact them free. Learn more about voice mail and more. [Exp. #146.]

KBBS Online *http://kbbs.kbbsnet.com* Interesting Web site links, WWW business marketing info, online service info. [Exp. #142.]

Kerry's Connection *http://www.crl.com/~zallar/index.html* Comedy Impressions—live and voice mail, QB Experience musical group, SRV School of Performing Arts. [Exp. #142.]

@LA *http://emporium.turnpike.net/A/atLA/* The most complete cyberspace guide to sites with a realspace presence in the LA area. [Exp. #144.]

LAcon III *http://sundry.hsc.use.edu/lacon3/* Web site for the World Science Fiction Convention coming to Anaheim in 1996. [Exp. #144.]

Links Golf By Bengtson Company *http://www.well.com/www/bengtson/golf.htm* Northern CA golf course directories, travel lodging, dining information, golf product information, and photos. [Exp. #142.]

Loser Love Songs *http://www.slip.net/~mbutler/index.html* Home of San Francisco power-pop band the Flex-a-Pleasers. Contains audio of every song in the catalog, more. [Exp. #143.]

Magnolia Jazz Band *http://www.sensemedia.net/sprawl/41345* Over twenty years jazzing up special events throughout SF Bay Area. [Exp. #144.]

Match.Com *http://www.match.com/?mt* "We met on the Net!" Cyberflirting, email chemistry, and online romance. [Exp. #146.]

Merger *http://www.wp.com/Merger/home.html* L.A. area original Rock and Roll band. Info about the band and upcoming gigs. [Exp. #146.]

Millennium Whole Earth Catalog *http://www.well.net/mwec/* Twenty-nine pages from the Whole Earth Catalog transformed into about 170 Web pages. [Exp. #142.]

Mission Cliffs *http://www.mission-cliffs.com/mission-cliffs/* New indoor rock climbing center in San Francisco featuring impressive 50' high overhanging walls. [Exp. #145.]

Montreal World Film Festival *http://www.ffm-montreal.org* Site for the Montreal World Film Festival: bilingual descriptions, filmographies, schedules. [Exp. #146.]

Movies.net *http://www.movies.net/* The simplest movie address in cyberdom. Comprehensive, industry directory. Showtimes, promos, reviews, previews, and more! [Exp. #146.]

Multiworld Magazine *http://www.jnw.com.mw/index.html Multiworld* is a multimedia, multilingual magazine published bimonthly via the Web. [Exp. #144.]

Mystic Sports Journal *http://www.sirius.com/~regent/MSJ* Spinmeister Jim Webster does sports like you've never seen it. [Exp. #144.]

Nightflight Essential Guide To New York/Los Angeles At Night *http://www.echonyc.com/~voice* The Nightflight Guide features recommendations for the hippest nightclubs, eating, drinking, and gaming establishments in New York and Los Angeles. [Exp. #144.]

Obscure Research Labs *http://140.249.8.212/ORL/* Specializing in: UFOs, time travel, paraphysics, matrix technology, disinformation tracking, all the answers. [Exp. #143.]

Online World Monitor *http://login.eunet.no/~presno/monitor.html* A free, bimonthly online product for supporters of The Online World resources handbook; subscriptions available. [Exp. #141.]

Online World—Online Resources Handbook *http://login.eunet.no/~presno/index.html* Broadcasting schedules for news in many languages, world travel guides, international affairs, health, much more. [Exp. #142.]

Open Book *http://futon.sfsu.edu/%7etalon* Open Book presents "Women's Journals," an interactive piece that was created exclusively for the Web. [Exp. #141.]

Optical Illusions *http://www.lainet.com/~ausbourn* A collection of famous optical illusions presented in a gallery format. Informative and educational. [Exp. #145.]

Relayer *http://bbs.annex.com/relayer/gate/htm* Come and play with Relayer. Using Netscape 1.1 codes to provide audio, visual, and weirdness. [Exp. #145.]

Rock And Roll Digital Gallery *http://www.hooked.net/julianne/index.html* A digital gallery featuring poster art and images with rock 'n' roll as the theme. [Exp. #143.]

Rock Around The World *http://www.ratw.com* Rock Around the World radio shows and newspapers: music, interviews, news—the '70s through today. [Exp. #141.]

Rocktropolis *http://underground.net/Rocktropolis* Visitors can attend chat sessions with musicians, hang out backstage, hear new songs, send in photos, and much more. [Exp. #146.]

Route 66 Los Angeles Webstation *http://www.losangeles.com* Find information about movies in theaters, on TV, and on video. This is a locally focused site supported by layers of global information. [Exp. #144.]

San Francisco Web *http://www.sfweb.com* Body, mind, spirit, personals, neighborhoods, and, of course, business listings. [Exp. #142.]

continued on page 243

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Pentium 75-133 MHZ w/256k Cache, Triton Chipset (ASUS)	$225
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Toshiba 3601B, SCSI	$295
Toshiba 5302, IDE, X4	$165

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540MB	MV540S (SCSI II)	$173
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CWL 9406 Combo. S/W Config.	$35
SMC Elite 16T Ultra Enet/Elite 16C	$95/109
Intel Etherexpress Pro, RJ45	$99

CONTROLLERS

IDE	VL 2FD/2HD 1:1	$21
SCSI	Adaptec 1542	$165
SCSI	Adaptec 1542 (kit)	$249
SCSI	Adaptec 2940/2940W	$195/235
IDE	I/O Card	$13

CASES

Mini Tower case w/ 250 W PS	**$34**
Desk Top case w/ 250 W PS	**$35**
Medium Tower case w/ 250 PS	**$52**
Full Tower case w/ 250 W PS	**$65**

MONITORS

EYEQ 14" SVGA 1024 X 768 0.28NI	$216
ViewSonic 14", VG6, 1024X768, 0.28, NI	$260
ViewSonic 15ES/15G/15GS	$379/419/435
Optiquest 1562A, 15", 1024X768,0.28	$375
Optiquest 2000DC, 15", SVGA	$420
Optiquest 4000DC, 17", 1024X768,0.28	$659
ViewSonic 17GS, 17' 1600x1280, 0.27	$729

VIDEO CARDS

SVGA 1MB (Trident)	$62
DIAMOND	
Stealth 64, 1MB DRAM PCI/VLB	$115/120
Stealth 64, 2MB DRAM PCI/VLB	$159/163
Stealth 64, 2MB VRAM, PCI/VLB	$265
Stealth 64 Video, 2MB DRAM PCI/VLB	$159/165
Stealth 64 Video, PCI, 2MB/4MB	#259/418
ORCHID	
Kelvin 64 VLB/PCI, 1MB/2MB	$125/172
GENOA	
8500 VLB Turbo	$86
ATI	
ATI Winboost PCI/VLB 1MB DRAM	$119/129
2MB DRAM	$163/169
ATI Winturbo PCI/VLB 2MB VRAM	$255
4MB VRAM	$399
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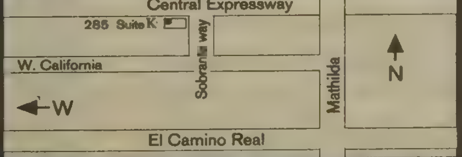

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BY ROBERT MOSKOWITZ

Is A Web Page For You?

Pros And Cons Of Having Your Own Home Page

With all the talk about the Internet, and particularly its graphic component—the World Wide Web—more than one hundred businesses and countless individuals per day are putting up their own Web "home page."

That's a small drop in the bucket, considering that every day several thousand people and businesses sign up to have their own Internet accounts. But it's significant because the Web presents an entirely new and very exciting channel for making contact, doing business, and presenting yourself to strangers. It may very well become the dominant channel for communications in a very few years.

> Generally, the **best home pages are the simplest.** Very **elaborate or garish ones** not only take a lot of time to download—**discouraging some people** from waiting—they're more difficult for you to **keep up to date.**

As you probably know, the Internet is the worldwide collection of more than three million computers (many of which are mere links to large networks that don't get counted in this total) supporting as many as thirty million users for messaging, file transfer, real-time chats, database access, and other computer services.

The World Wide Web puts a graphical, or "Windows"-type interface in front of all that. Originally developed to aid scientists in their work, the Web is now the fastest growing lane along the Information Highway. Somewhere on the Web, you can almost certainly find anything you can think of: interesting characters, museums, galleries, schools, restaurants, and plenty of vendors. And once you find it, just click on it and your computer is quickly connected to the appropriate computer site on the Internet.

A home page can be any one of these sites. Most often, however, it's carefully designed (or at least intended) to function as a kind of table of contents or "index" for other pages and files. By scrolling through the home page, users can quickly and easily learn what information is available, and by clicking on "hyperlinks" to these other resources, they can send email, download a file, or review other information without typing a single computer command.

Costs are already very low, and dropping rapidly. Many vendors offer 5MB of disk space on their Internet-connected computers for as little as $25 or $30 per month. For this, you get the right to store your Web page files where they can be accessed twenty-four hours per day, seven days per week. You also get a complete list of the e-mail addresses of everyone who ever connects to your home page. For a onetime fee of another $100 or so, you can even create and register your own home page address, in the form of: *http://my-own-name/* .

Neat, But Is It For You?

The Web's fantastic popularity is based on its tremendous ease of use, and its colorful graphics. What's more, the Web's use of hyperlinks, or connections to other computer resources, represents one of the first true applications of computer power to human reading, thinking, an understanding.

There are some drawbacks to having a hom page on the Web, however. First, and mos important, it's still not considered "safe" t spend money directly via the Internet. You ca send someone your charge card number, an even split the number between two email messages for greater security. You can fax or emai checks to people with the specialized softwar to receive them. There are even fledgling experiments with electronic money, often called "E Cash," designed to be spent only on the Interne and backed by bank created for just thi purpose. But becaus of most people's general reluctance t commit bucks via th Web, business is generally not as brisk a you might imagine.

Second, the Web requires vast quantities of information to b sent and received. Unless you're plugged int the Internet at a very high rate, 28,800 bits pe second or faster, Web operations are far from instantaneous.

Statistics still show, in fact, that more tha 90% of Internet users are operating at only 960 or 14,400 bits per second, meaning that a Web page can take a minute or longer to appear o their computer screen.

Newer versions of the software for using the Web (called "browsers") try to address this problem by displaying text as soon as it appears, and letting you scroll through some of the Web page before all of its graphics are in place.

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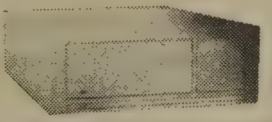

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Is A Web Page For You? *continued...*

Advanced compression technology is also increasingly popular, alon with massive amounts of disk storage so you can download a particular page just once each session (or just once for all time if you like i enough to store it between sessions on your own computer's har drive).

Since 28,800 bits per second is none too fast, and appears to be th practical maximum for dial-up technology over existing telephon wires, the Web probably won't take off toward its full business potential any time soon. Expect to wait until we're all connected throug high-tech ISDN telephone lines, which offer much higher speeds fo this sort of thing.

Web In Real Life

However, here are some examples of how the Web is already bein utilized:

Jupiter Communications held its Online Marketplace '95 conference this past April at the Sheraton Hotel in Chicago, featurin keynote speaker Jay Chiat of Chiat/Day advertising. Topics included online advertising, banking, shopping, and financial services. The conference was itself heavily promoted on the Web, and had its own Web home page at *http://www.jup.com/jupiter/con.htm* . Attendance ran well ahead of expectations.

The 12th World Hot-Air Balloon Championship held a week-long contest in Battle Creek Michigan (*http://branch.com/hotair/index.html*). All the news, gossip, and results were posted on a special Web page. The same was true of the America's Cup in San Diego earlier this year.

The American Red Cross has its own Web page. The address is: *http://www.crossnet.org* .

Insight Software Solutions is supporting a Web site where people can upload and download copies of crossword puzzles to be used with the company's proprietary software. Look for it at *http://www.smart-code.com/puzzle* .

Dozens or even hundreds of publications have Web sites established, or will soon. *MicroTimes*' home page is at: *http://www.micro-times.com/* .

Infoseek Corp. has a service on the World Wide Web that allows users to search "more than one hundred computer publications, ten thousand Internet newsgroups, and two hundred thousand World Wide Web pages" much faster and more easily than ever before. The company will also make available information from Business Wire, CW Publishing Inc., Information Access Co., InfoWorld Publishing Co., Newsbytes News Network, PR Newswire, and The Reference Press, to name but a few. Check it all out at: *http://www.infoseek.com* .

The IRS has shifted to the Web, too. This tax season, everyone's favorite government agency offered tax forms and tax advice at several sites on the Web, including: *http://www.fedworld.gov/pub/IRS/* . Hundreds of thousands of taxpayers tuned in and got the information they wanted, without tying up the time of expensive IRS clerks.

The Los Angeles-based CPA firm Hargrave & Hargrave climbed on the bandwagon with its Tax Wizard on the Web. To see it, point your browser at: *http://taxwizard.com* .

Everyone's other favorite government institution, the US Congress, is going onto the Web at a rapid pace. Some Web sites include:

continued on page 216

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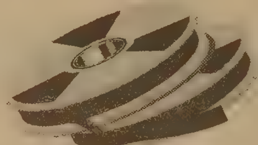

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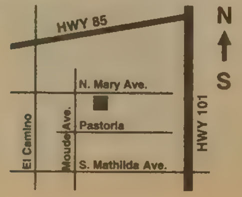

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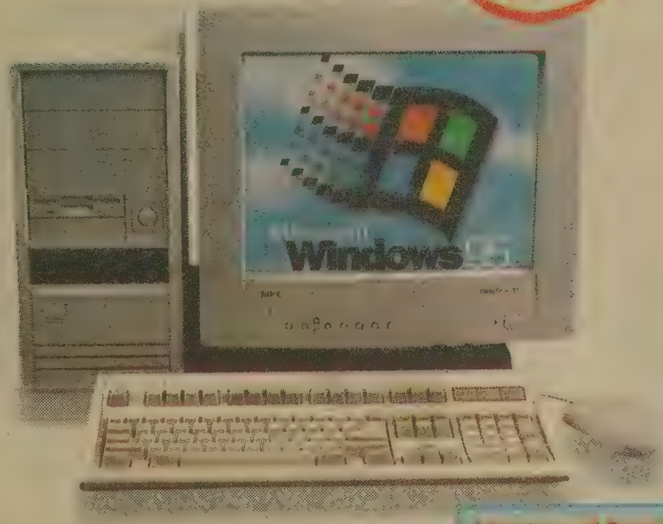

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Nov/Dec 1994

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- Intel CPU
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- Mid Tower Case w/ 230 Power Supply
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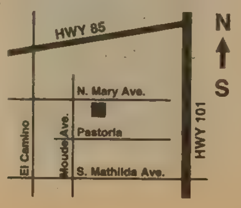

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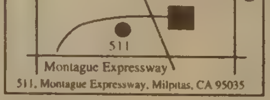

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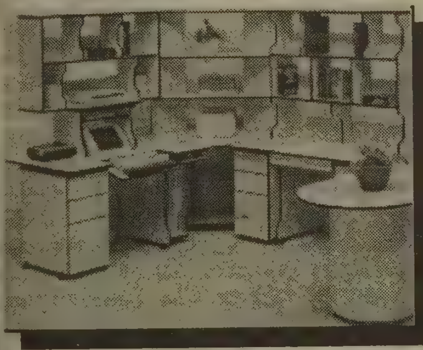

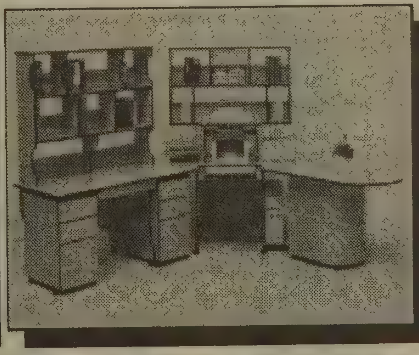

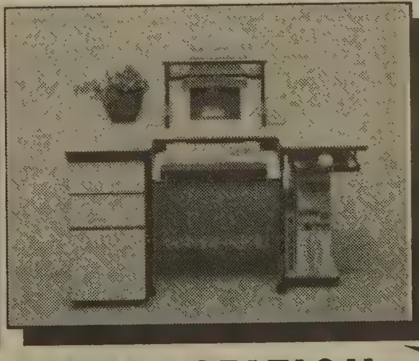

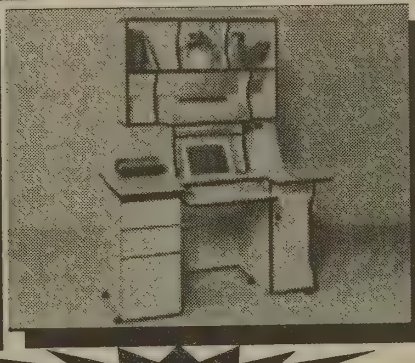

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IBM 486 BL3-75 w/math-co	$153
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mus. 486 PCI,VLB 256 Cyrix/AMD66	$175/171
PONY 486 DX4-100 256K-WB AMD	$176
MUS. 486DX4-100 256K AMD	$192
SIS PCI/ISA Cyrix DX2-80 w/256K	$155
486 EISA/VLB 256 DX2/80 C/AMD	$351/356
AIR-EI DX4-100 512k Amd/Intel	$452/499
Asus SP3GN PCI Intel/AMD dx4-100	$399/352
Asus PVI-SP3 PCI AMD dx4-100	$265

Intel PENTIUM and DX-4

NexGen 586-90 256K VLB	$296
Edom Triton 256K PCI 75/90/100	$376/479/588
SuperMicro PCI/VLB 256k 90	$507
SuperMicro Triton chip 90/100 256k	$529/638
Intel 256K PCI 60/66 w/ide-io&video	$414/414
Intel Zappa w/256K 75/90/100	$425/528/637
Intel Endeavor 256k Burst 90/100	$668/777
Tyan PCI/EISA Tritn1461 512k 90/100	$529/638
Asus P55TP4XE Burst 100/133	$745/1091
Asus PCI/ISA Dual 256k 90	$669

ISA/EISA CONTROLLERS

IDE & FAST I/Os

Mustang IDE 2FD-2HD/2FD-2HD &IO	$12/18
Promise DC200 2FD/4HD	$96
FAST-SPG IDE/IO / Fast IO Uarts	$20
ULTRA-IO 4S/2P 4 16C550 Bi-Dir Boca	$98

SCSI

Future Domain Comp 16 bit no floppy	$43
ADAP 1522 16BIT Card/Kit	$73/133
ADAP 1542C Card/Kit	$195/245
ADAP 1742 EISA	$357
ADAP 2742 EISA Fast SCSI2 C/K	$286/347
Bus Logic 545c card/kit	$196/210
Bus Logic BT 742 Card	$272
Bus Logic BT747S Card/Kit	$285/310
Bus Logic BT 757 Wide S card/kit	$360

VLB/PCI CONTROLLERS

IDE

Mustang IDE-IO VLB Enhanced/PCI	$21/22
MustangT IDE VLB w/Fast IO	$23
Mustang PCI IDE w/16550	$32
MustangP 2300 VLB Plus w/fast IO	$46

SCSI

NCR(ASUS) SCSI PCI 810/815card	$64/99
BusLogic BT445S Fast SCSI-II c/kit	$171/198
BusLogic BT-910A PCI caching	$158
BusLog KT946c Promo PCI Kit C/K	$173/236
Adaptec 3940 kit	$410
Adaptec 2842 SCSI II Kit card/retl	$211/230
Adaptec 2940 PCI Kit card/Retail	$202/246
Adaptec 2940 wide card/kit	$264/290

COMMUNICATIONS

ASA House Brand

902Z 96/24 Fax (Send)/Mod Int	$24
992Z 96/24 Fax/Modem	$34
1414IZ 14.4 F/M,.32/.42 w/Bitfax Int	$41
14.4 F/M .32/.42 w/Voice	$51
14.4 F/M .42bis External	$64
28.8 F/M Int(14.4/28.8) .32bis Int/Ext	$108/130
992PZ Pocket 96/24 F/M,.32/.42	$63
1414MG PCMCIA144/144 F/M v.42	$202

U.S. Robotics

USRobotics 14,4 Mod/Fax I/E	$92/108
USRobotics 14,4 Si Int	$64
USRobotics 28.8 Int/Ext	$178/200

Supra

14.4 F/M Int/Ext	$92/105
28.8 Int./Ext	$235/245

Misc

Megahertz PCMCIA 14.4FM XJ2144	$202
Digiboard 16/32 Eisa/ISA DB25/RJ45	$911/1380

MULTI MEDIA

Panasonic 562 2X/ 504S 4X	$55/257
Sony 55E DblSpd	$79
Chinon 2x SCSI Int	$137
TEAC/Mitsumi Quad IDE Interface	$137/154
NEC 3X 510CDR Int 195ms,450KB/sec	$191
NEC 511 4X Int SCSI	$273
TOSHIBA 5302B IDE 4X	$151
TOSHIBA 3601 Int. 120ms,600Kb/sec	$311
Sanyo 4x scsi	$175
Plextor 6X 900kb/sec,100msec	$491
Controller card for Pan/Teac	$8

AUDIO CARDS & MPC KITS

Sound Blaster 16 w/asp ide interface	$75
Sound Blaster 16 Basic VE Retail	$90
Snd Blaster 16 SCSI OEM	$126
SoundBlaster AWE32	$262
Creative Labs CD Value kit	$278
Encyl 1:Encyl,Animals,World/US Atlas	$33
Educational 1 + Family health	$56
Labtec 150/600 Speakers	$16/25
100 Watt speakers	$48

FIOPPY DRIVES

YE Data 1.2/1.44MB	$36/24
Teac 1.2/1.44MB	$41/29
Teac Dual Floppy 1.2 + 1.44 MB	$84

HARD DRIVES

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CON 270MB 15msec	$124
CONNER/Qtm 420MB	$135
CON 540	$169
QTM 540 MV/LT	$164/169
WD 540 / 635 12msec	$165/169
MXTR 540 7540AV	$162
WD 730/850 12msec	$209/194
Quantum 730LT	$179
CON850	186
WD 31200 1.2 GB	$270
Con1275CFA/CFS	$285/245

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Quantum 700 LT	$199
Quantum1080S Empire/Fireball	$499/307
Fujitsu 1GB	$377
ST 31230N 1.2GB Hawk	$415
Quantum 2.1 GB Em2100/At 2150S	$589/831
ST 32430N 2.1GB Hawk	$739
ST 32550N 2GB Barracuda	$889
ST 3.4GB ST43400N 3GB	$1399
ST15230 4GB Hawk	$989
ST 15150N 4.2GB 8msec Barracuda	$1359
ST 9GB ST410800N	$2085

TAPE DRIVES

Colorado 250/350/700MB	$132/128/186
Conner 420/850 MB QIC Format	$131/196
Colorado Trakker 250/T1000MB Int	$256/189
Conner 4200/C 2/4GB DAT	$744/846
HP 2GB 35470 DAT 4mm Int/Ext	$707/831
HP 4-8GB 35480 DAT 4mm Int/Ext	$812/919
HP 4-8GB DAT 1533A 4mm Int	$968
WANGTEK 3100/3200 2/4GB 4mm Int	$752/847
WANGTEK 3400 8 GB 4mm Int	$946
EXABYTE 4200/4200C 2/4GB	$740/850
EXABYTE 8205 5GB 8mm Int	$1265
EXABYTE 8505xl 12GB 8mm I/Ext	$1997/2243

PRINTERS

OKIDATA

OL 380/321 dotmatrix,24Pin,23K	$246/453
OL400e laser 4ppm, 300dpi	$420
OL810, 8ppm, 300dpi	$942
OL830 Plus/850, 8ppm w/ 2MB ps	$1075/1185
OKI ML520/521 9 pin 64K	$399/505
OKI ML590/591 24 pin..auto form	$453/597

HEWLETT PACKARD

Deskjet 540 300dpi,120cps,16k	$239
Deskjet 660,3ppm,300dpi	$425
HP 4+/4SI/4L/4V	$1449/3030/529/1951
4M+/4MV/4SiMX	$1973/2787/4109
HP 5P/Office Jet	$894/720

NETWORKING PRODUCTS

NE 2000 Compatable combo celan	$32
NE2000 Comp Combo Novell app	$24
NE 2000 PCI Coax/10bt	$66
NE 2000 comp 10bt Novell appr.	$25
D-Link 16 Bit Soft Config 10BT 1/6 Pk	$70/377
Intel EtherExpressPRO 1/5/20pk	$116/480/1752
SMC Ethcard 16 Elite Ult Cx/6 Pk	$106/581
SMCEthcardEliteUltraCOMBO 1/6	$119/625
3C590 PCI Combo	$158
3C509 Eth III Combo 1/5/20pk	$117/525/1898
3c509 coax/10bt card	$108/108
3Com 579 EISA Coax/10BT	$223/223

Hubs

CeLan 8 Port 10 BT w/BNC Cascade port	$132
CeLan16 Port 10BT/SNMP upgdble	$307/307
LanProf 8/16 Port Hub w/BNC	$101/213
Asante 8 Port Hub,8RJ45,1BNC	$247
SMC 8 Port Concentrator	$309
SMC 12Port Tiger Hub	$418
3 Com Link Builder 3C621 12 Port	$714

Novell Netware

V3.12/4.01 5/10/25/50	$600/1145/1843/2420
V3.12/4.01 100/250 User	$2875/5668
V4.02 500/1000 User	$13999/26879

(Novell $ valid with hardware purchase only)

Windows NT Advance server	$922
Windows NT v 3.1	$276

UPS'S

APC-BK 280 ,7 MION,386SX,WS	$98
APC-BK400,10MIN,386SX,WS	$140
APC-BK450	$170
APC-BK600,15 min,386/486 FS	$236
APC-BK900/1250,15min,Multi-FS	$335/437
Power doctor/Call UPS	$70/102

SMART UPS (ON-LINE/AUTO BACKUP)

APC 400, 10 min,286,386 FS/WS	$273
APC 600,15 min,386,486 FS/WS	$339
APC 900,15 min CAD/CAM WS/FS	$447
APC 1250,15 min,Multiple FSs	$610
APC 2000,20 min, Mini computers	$1215

CABLES & CONNECTORS

Readymade w/Connectors 10'/25'/50'	$4/6/9
RJ45 10BT patch cabnles 7'/25'	$4/6
SPOOL	$80
RJ45 10BT 1000' level4/5	$119/130
BNC 50 Ohm Terminator/Crimp-ON/Barrel	$1.49

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Syquest 105/44 Ext	$298/198
M.S.Dos V5.0	$19
Lan Adapter Thomas Conrad	$69
Citizen AH39802 Color Kit	$35
Novell DOS	$19
Orchid P9000 VLB 1MB	$199
Orchid Celsius 1/2MB	$139/199
MAXTOR1.2GB51/4PO-125	$480
FUTURUS TEAM E-MAIL	$105

Limited 10days warranty from purchase date

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ISA/EISA ADAPTERS

MGP	$10
VGA 256k	$29
Trident/CL1MB	58
Tseng ET4000 1MB	$84
ATI 1mb VRAM Dual Monitor cap	$199

VLB/PCI ADAPTERS

MustangVT Trident VLB 1/2MB	$66/108
MustangVC Cirrus log5429 VLB 1MB	$73
MustangVS S3-805 VLB 1/2MB	$63/105
MustangET4000 VLB 1MB only	$63
Cirrus Logic 5434 PCI 1MB	$92
S3-864 PCI 1/2MB	$88/132
ET4000 PCI 1MB	$95

Name Brand

Spider 32 1MB,20 WM	$80
Spider 64 1/2MB VLB/PCI	$113/153
Spider Tarantula 2MB	$226
DIAMOND Stealth 64 1/2MB DRAM	$119/167
DIAMOND Stealth 64 2/4MB VRAM	$270/406
ORCHID Celsius 2MB	$369
ATI 32 VLB/PCI 2MB	$223
ATI GrapProTurbo 2MB PCI/VLB	$270
#9 TRIO330 1/2MB Dram PCI	$119/154
#9 Pro PCI 4MB OEM	$496
Matrox PCI MGA Imp 1/4+	$359/$550
Matrox VLB 2+/4mb	$359/479

MONO

Mono 14" amber/white	$66/64
Mono 14"/9" SVGA	$97/104

VGA/SVGA

SVGA 14" 1024 x 768 .39	$176
SVGA 14" 1024 x 768 .28 Int	$199
SVGA 14" 1024 x 768 .28 NI MGC/IMP	$217
SVGA Black 14" .28 NI	$230
CTX/kanaka 14" 1024 x 768 .28 Int.	$235
CTX/kANAKA 14" 1024 x 768 .28 NI	$236

CAD 15/17/20"

KFC15".28 1280x1024NI wo/w Dig	$298/342
CTX 15" 1562	$338
Orchestra Tuba 17" 1600x .28	$593
Orchestra Tympani 1024x .42	$414
KFC 17" .28 1280x1024 NI w/o digital	$636
KFC 17" .26 1280x w/digital display	$636
KFC 20" 1600x1280	$1129
Idek 17" iyamma 8617A	$762
Viewsonic 6E 14" .28 NI Green	$262
Viewsonic 15E 15" 1024x .28	$434
Viewsonic 17" 1280x1024	$845
Hitachi-CM2095 20"	$1227
Sony OEM 17" 1864	$753
Sony-GDM17SF 17"	$856
Sony-GDM20SE 20"	$1930
Mag-DX15F 15"	$368
Mag-DX 17F 17" .26 1280x	$646

Cases,P/S, K.B, & Mice

ROADRUNNER SERIES

Baby Desk/Mini Tower w/PS	$39/32
Medium Tower w/PS Compact/Regular	$43/49
Full Tower(230W)/Big Tower(300W)	$57/181
Rack Mount W/PS	$336

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Medium Tower Thick w/PS	$93
Full Tower w /PS	$100
File Server w/ 400W PS, 3 Fans 12 F/HDD	$403

External HDD/CD-ROM Cases

1HH w/PS 3.5"/5.25"	$53/50
1FH(2HH)/2FH(4HH)/7HH w/PS	$87/96/196

KEYBOARDS AND MICE

Enhanced/Spill-Resistant 101	$12/13
MaxiSwitch/KeyTronic/Sejin	$19/26/14
Small 11.5" 88 Keys/BLACK 101	$27/21
Russian keyboard	$15
Japanese Keyboard, 106 Keys	$46
Microsoft Natural/Focus 9000/2000	$95/47/32
Serial-Mouse/Track Ball	$8/24
LogiTech 1st/Mouse Man/Bus bulk	$19/26/39
Microsoft white box Ser/Bus/PS-2	$32/65/34
Logitech Trackball	$93

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PS2 230/250/300W	$28/30/45
PS2 230/250W GREEN PC	$38/42
Full Tower 230/300/400W	$50/76/162
American Enhance 300w PS2/Full	$78

ＡＳＡコンピュータ

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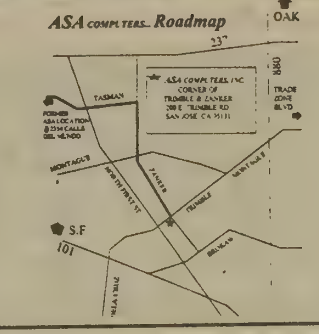
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COD, FOB San Jose, CA. Prices subject to change without notice.

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End-User $7 Extra for orders under $500.
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All parts are covered by Manufacturer's Warranty; Systems come with system level labor warranty of three years from ASA. Please refer to the ASA Catalog for a full listing of the Terms and Conditions. Not Responsible for Typographical Errors.

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MOTHERBOARDS	**486 Motherboard** PCchip VLB 256k WB w/Cyrix 4V DX2-80 $119	**486 Motherboard** VLB/ISA Opti 256k w/AMD DX4-100 $189	**Pent. Motherboard** Triton Chip PCI/ISA Intel 75 Pentium CPU Built-in PCI IDE Fast IO $359	**Pent. Motherboard** Intel 'Zappa' Intel 90 Pentium CPU Built-in PCI IDE Fast IO intel inside pentium $509 intel inside	**Pent. Motherboard** Intel 'Endeavor' Intel 133 Pentium CPU Built-in PCI IDE Fast IO, burst cache intel inside pentium $1099 intel inside
NETWORKING & MEMORIES	**Network Int Cards** NE2000+ Comp. Combo 10BT/Coax (Novell Approved) 10 pack $249	**HUBs** 8 Port Hub + 1 BNC Lan Prof/Celan (Yes, It Runs Novell) $104/149	**HUBs** 16 Port Hub + 1 BNC Lan Prof/Celan (Yes, It Runs Novell) $209/334	**Memory** 4x9 bp 3 chip 70 ns $124	**Memory** 1x32/2x32/4x32 4/8/16 MB - 70 ns $129/259/489

HARD DRIVES	WESTERN DIGITAL 540 MB IDE WDAC 540 $163	WESTERN DIGITAL 635 GB IDE WDAC 635 10 msec $164	WESTERN DIGITAL 850 MB IDE WDAC 2850 11 msec $195	WESTERN DIGITAL 1.2GB IDE WDAC 31200 10 msec $264	QUANTUM 540 MB IDE 540 MV 14 msec $160
HARD DRIVES	Seagate THE DATA TECHNOLOGY COMPANY 1.2 GB Scsi ST 31230N 9 msec $409	Seagate THE DATA TECHNOLOGY COMPANY 2.4 GB Scsi ST 32430N 9 msec $719	Seagate THE DATA TECHNOLOGY COMPANY 2.5GB Scsi ST 32550N Barracuda-2, 7200 rpm, 8.5 ms $879	Seagate THE DATA TECHNOLOGY COMPANY 4.5 GB Scsi ST 15230/15150N Hawk/Barracuda-4, 11/8.5 ms $959/1299	Seagate THE DATA TECHNOLOGY COMPANY 9.0 GB Scsi ST 410800N 11 ms, 5.25" FH, 1024KBs $2069
HARD DRIVES	CONNER The Storage Answer 270 MB IDE (Min 5 pcs) $122	CONNER The Storage Answer 425/540 MB IDE CFS 425/540a $134/162	CONNER The Storage Answer 850 MB IDE CFS 850A Fast $184	CONNER The Storage Answer 1.2GB IDE CFS 1275A $239	CONNER The Storage Answer 1.08 GB Scsi CFP 1080S (Min 5 pieces) $329
TAPE/DAT & HARD DRIVES	CONNER The Storage Answer TAPE DRIVES 420/850 MB with 1 Cassette $129/189	EXABYTE Exb-1500 QIC Tape Dr Up to 1360 MB, 9.3 MB/Sec compatible w/QIC-40,80; 1 cassette $149	DAT DRIVES Hewlett Packard 4 mm 2GB/4GB/8GB $713/813/931	QUANTUM 730 MB IDE/SCSI LIGHTENING 11 msec $189/199	QUANTUM 2.1 GB Scsi Emp 2100/Atl 2150S 9.0/8.5 msec $579/815

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All Parts with Min one year Manufacturer's Warranty; ASA Catalog available upon request.

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256K PIPED BURST CACHE
SOUND CARD ON BOARD
$1078/1188/1398/1548
MOTHERBOARD/CPU
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256K PIPED BURST CACHE
$1018/1128/1338/1488
MOTHERBOARD/CPU
$638/758/969/1128

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SIS CHIP SET
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$388/498/608/818/978

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$828/938/1048/1258/1408
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$688/888/1008/1208/1368
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PCI/ISA
256K CACHE SYSTEM
$488
MOTHERBOARD/CPU
$238

AMD Processor
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VESA LOCAL BUS
256K CACHE SYSTEM
$478
MOTHERBOARD/CPU
$208

INTEL Processor
486 DX4-100
VESA LOCAL BUS
256K CACHE SYSTEM
$538
MOTHERBOARD/CPU
$278

INTEL Processor
VESA LOCAL BUS
486-66DX2
256K CACHE SYSTEM
$498
MOTHERBOARD/CPU
$228

AMD Processor
VESA LOCAL BUS
486-66DX2
256K CACHE SYSTEM
$428
MOTHERBOARD/CPU
$168

AMD Processor
VESA LOCAL BUS
486-80DX2
256K CACHE SYSTEM
$438
MOTHERBOARD/CPU
$178

BASIC SYSTEM CONFIGURATION:

- 4MB RAM Expandable Except Pentium (Pentium-8 MB)
- IDE 2FD/2HD Controller
- 101 Key Mitsumi Keyboard
- Teac 1.44 MB Floppy Drive
- 2 Serial, 1 Parallel, 1 Game Ports (Exp. Pentium)
- Mini-Desk Top or Mini Tower Case
- Power Supply
- One Year Warranty

LIFETIME LABOR WARRANTY ON SYSTEM!

486 VLB MULTIMEDIA COMPLETE SYSTEM
W/QUAD SPEED CD-ROM

PACKAGE INCLUDES:
- Motherboard w/256K Cache
- 4 MB RAM
- 520 MB Hard Drive (14ms)
- Mini Tower or Mini Desktop Case
- Panasonic CD-ROM (4X Speed)
- Sound Blaster 16 OEM Soundcard
- Teac 1.44 MB Floppy Drive
- 14" SVGA 1024x768 .28mm NI Color Monitor
- SVGA Card w/1MB (S3 Chipset)
- IDE Enhanced Controller (2S/1P/1G)
- 101 Keyboard
- 25W Speakers
- Microsoft Compatible Mouse

CALL FOR OTHER CONFIGURATIONS & OPTIONS

486DX2-66 MHz AMD . . . $1138
486DX2-66 MHz Intel . . . $1208
486DX2-80 MHz AMD . . . $1148
486DX4-100 MHz AMD CPU $1188

VIDEO CARDS

ATI Pro Turbo 2MB/4MB PCI/VLB OEM	**$269/439**
ATI Ultra Pro VLB 2MB OEM	**249**
ATI Ultra Pro 2MB ISA/PCI VRAM OEM	**249/249**
ATI Ultra Plus 2MB DRAM PCI/VLB OEM	**159**
ATI Graphics Wonder 1MB DRAM PCI OEM VLB	**109**
Diamond Stealth 64 2 MB VRAM PCI/VLB	**269/279**
2MB Upgrade For Above	**159**
Diamond Stealth 64 1/2MB DRAM VLB	**125/175**
Diamond Stealth 64 1/2MB DRAM PCI	**120/170**
Diamond Speedstar Pro VLB	**89**
Matrox Impression Plus 1600x1200	
2MB VRAM PCI	**349**
2MB Upgrade For Above	**225**
Matrox Millenium 1600x1200	
2MB WRAM PCI	**339**
2MB WRAM Upgrade	**199**
4MB WRAM Upgrade	**345**
6MB WRAM Upgrade	**495**
Orchid Kelvin 64 1MB PCI/VLB	**125/125**
GENOA VESA LOCAL BUS	**89**
S3 VLB 1MB	**75**
Trident PCI 1MB	**75**
VGA (1024x768) 1MB	**65**
VGA 256K	**29**
GENERIC Monochrome Graphics w/Printer Port	**17**

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IDE Controller	**$17**
IDE w/2S/1P/1G High Speed Serial	**45**
Enhanced IDE VLB 2S/1P	**29**
High Speed Enhanced IDE VLB 2A/1P	**39**
IDE I/O VLB Hi-Speed Serial	**49**
Adaptec SCSI 1542C w/software	**185/239**
Adaptec SCSI 2742T EISA w/Floppy & Software (14 SCSI Devices Support)	**365**
Adaptec 2940 SCSI PCI	**215**
Adaptec 2940W Wide SCSI PCI Kit	**275**
Adaptec VLB 2842VL w/Software	**215**
8 Bit SCSI Card	**49**
Promise EIDE 2300 Plus 4HD/2S (16550)/1P	**49**

I/O CARDS

AT I/O (2S 16550/1P/1G) Hi-Speed	**$39**
AT-I/O (2S/1P/1G)	**15**
Printer Card	**12**
Game Card	**12**

KEYBOARDS

Microsoft Natural Keyboard	**$85**
Keytronic 101	**35**
Mitsumi 101	**29**
Acer 101 Keyboard (clicking)	**35**
MAXISWITCH 101 Keyboard	**35**

MONITORS

IDEK MF8617 17" 1280X1024	**$765**
NANAO	
F2.15 15"	**549**
F.217 17"	**875**
F2.17 Ex 17" 1600x1280	**959**
T2.17TS 17"	**1025**
T2-17 17"	**1285**
T2-20 20"	**1955**
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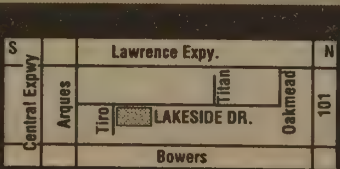

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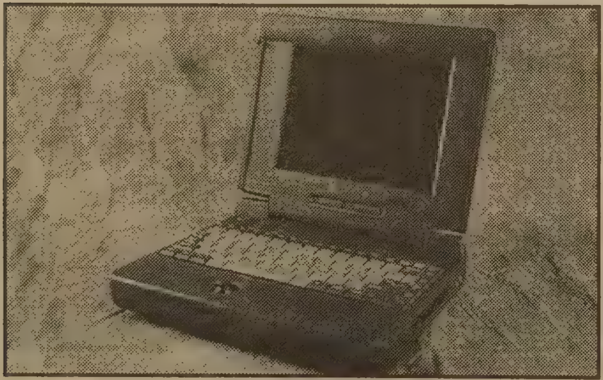

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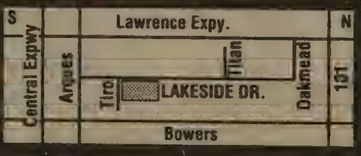

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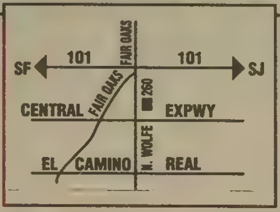

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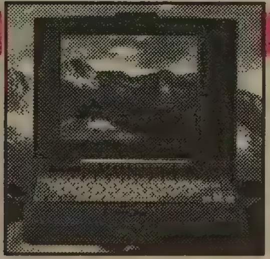

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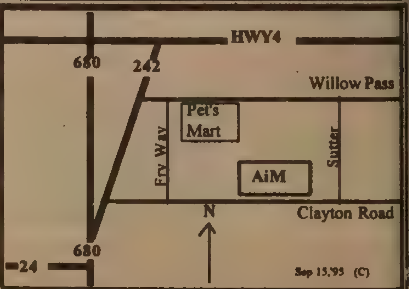

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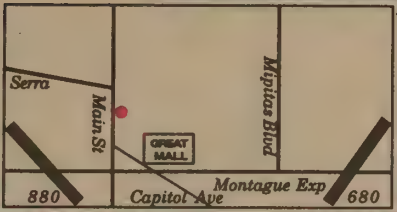

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486DX2-80 (AMD)	$1115
486DX2-66 (Intel)	$1170
486DX2-66 (AMD)	$1110

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*EIDE PCI w/1p,2s w/16550 UART
*8 MB RAM
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*1.44 Teac FD
*101 Keyboard
*15" SVGA N-I Mntr.(1280 X 1024)
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*MS Compatible Serial Mouse
*4xi CD-ROM
*SB 16 Vibra
*Speakers
*MS Encarta 95, Money,Works

$1470

FAX MODEM

❖ZOLTRIX	
Fax Modem (14400 F, 14400 M) Int / Ext	53/83
Fax Modem 14.4 voice/28,800 V.34	63/125
❖US ROBOTICS	
Sportster Fax/Modem 14,400 Int/Ext	94/105
Sportster SI Fax/Modem 14,400 Int/Ext	69/96
Sportster v.34 Fax/Modem 28,800 Int/Ext	189/205

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- 16.7 Million Colors
* IDE VLB w/ 1p, 2s, 1g
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* Mini tower Case w/ 230W
* 101 Enhanced Keyboard
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* Free CPU Fan

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486DX4-100(AMD)	$963
486DX2-80 (AMD)	$925
486DX2-66(Intel)	$975
486DX-66 (AMD)	$920

MONITORS

❖NANAO	
F2-15 / F2-17 / F2-17EX	530/850/960
T2-17TS /T2-17/T2-20	1010/1225/1875
❖NEC	
XP15/XE15/XV15	580/535/434
XE17/XP17/XV17	999/1020/746
XE21 / XP 21	1720/2100
❖MAG	
DX15 FE/DX17F (1280x1024)/MXP 17F	365/640/840
❖SONY	
GDM 20SE/17SF/15SF	1865/825/485
❖HITACHI	
CM1711	850
CM-2096 20"	1,180
CM-1587MV	370
ACUVUE GX20/GX21	1460/1769
❖VIEWSONIC	
14 ES/ M-V15ES/ 15GS/15GA	269/ 390/ 455/ 520
17 / 17GA / 17GS / 17PS	834/845/750/910
20 / 20G / 21PS	1,400/1,350/1,680
❖MGC	
Non-interlaced 14" Monitor 0.28	215
Non-interlaced 15" Monitor 0.28	290
Impression 17" Non-Int. Monitor 0.28	540

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❖CREATIVE LABS	
SoundBlaster Basic 2.0	55
SoundBlaster 16 Vibra OEM/ MCD w/ASP OEM	69/84
SoundBlaster 16 SCSI-II OEM/ SCSI II w/ASP Orig	110/190
SoundBlaster AWE 32	265
◆CHINON 2XI / 4XI speed CD ROM SCSI	120/175
◆MITSUMI 4XI CD ROM IDE	150
◆TEAC 4XI CD ROM IDE	144
◆TOSHIBA CD ROM 5302 4XI IDE	160
◆TOSHIBA CD ROM 3601 Int / Ext	295/399
◆PANASONIC 4XI SCSI CD ROM	148
◆NEC 6XI SCSI CD ROM	375
◆ 2xi Multimedia Kit: Double-speed CD-ROM + Soundblaster 16 Vibra 5 Microsoft *Home* software + Speakers	210
◆ 4xi Multimedia Kit: Quadruple-speed CD-ROM + Soundblaster 16 5 Microsoft *Home* software + Speakers	265
◆ SCSI 4xi Multimedia Kit: Toshiba 3601 4xi + Soundblaster 16 SCSI-II Microsoft *Home* software/Dune/MS Mouse Ampilfied Speakers + Microphone	365

KEYBOARDS

101 Enhanced keyboard	$18
Maxiswitch/Keytronics	26 / 29
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Omnikey 101	70

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* Spider Tarantula Lite w/ 1M
- 64 Bit Accelerator
- 16.7 Million Colors
- Expandable to 2MB
* 14" SVGA (1024 x 768, .28dp)
- non-interlaced, energy saver
* 540 MB Hard Drive
* Medium tower Case w/ 230W
* 101 Enhanced Keyboard
* Microsoft Mouse w/ Pad
* Free CPU Fan

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Pentium 120 (Intel)	$1570
Pentium 100(Intel)	$1380
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SVGA-512/1MB (1024x768,16bit)	$38/58
❖DIAMOND	
Stealth SE w/ 1MB DRAM	99
Stealth 64 Video VLB/PCI w/1MB/2MB DRAM	125/170
Stealth 64 Video PCI w/2MB/4MB VRAM	260/410
❖SPIDER	
SPIDER 64 LYNX 1M/2MB DRAM	72/120
Tarantula 64 MK II VLB/PCI 2MB/4MB VRAM	250/370
Tarantula VLB/ PCI w/ 1MB/2MB VRAM	165/225
Tarantula VLB/PCI w/ 4MB VRAM	335
Tarantual Lite (S3) PCI w/ 1MB/2MB DRAM	87/133
32VESA Local Bus w/1MB/2MB	80/130
32VLB Plus w/1MB/2MB	87/133
BlackWidow Engine ISA 1M/2M VRAM	120/165
BlackWidow+ PCI/VLB w/1MB/2MB VRAM	135/190
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64 VLB/PCI w1MB/2MB/4MB DRAM	112/155/235
❖ORCHID	
Kelvin 64 VLB/PCI w/1MB/2MB DRAM	115/149
Kelvin Easy VLB/PCI w/ 1MB	87
Fahrenheit PRO VLB/PCI 2M/4M VRAM	250/385
❖ATI	
ATI Mach 64 W inTurbo PCI w/2MB/4MB VRAM	260/400
ATI Winboost VLB/PCI w/1MB/ 2MB DRAM	130/175
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1.2 GB/12ms (EIDE)	245
850mb/12ms (EIDE)	190
1.0 GB/10ms (SCSI)	355
❖MAXTOR	
1.2 GB / 12 ms (EIDE)	245
850mb/ 10 ms (EIDE)	190
540mb/14ms (IDE)	165
❖QUANTUM	
540mb/12ms FB540A	165
540mb/14ms (SCSI)	178
730mb/12ms (SCSI)	200
1.0GB/10 ms (SCSI)	240
2.1 GB/8ms (SCSI-2)	720
❖WESTERN DIGITAL	
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540mb/12ms (IDE)	172

MISCELLANEOUS

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◆Logitech Mouseman serial/Bus (4000dpi)	30/51
❖COLORADO	
DJ-35C 350MB/DJ-25 700MB/DJ-50 1.4GB	142/200/300
Traktor 250MB/Traktor 700MB	265/325
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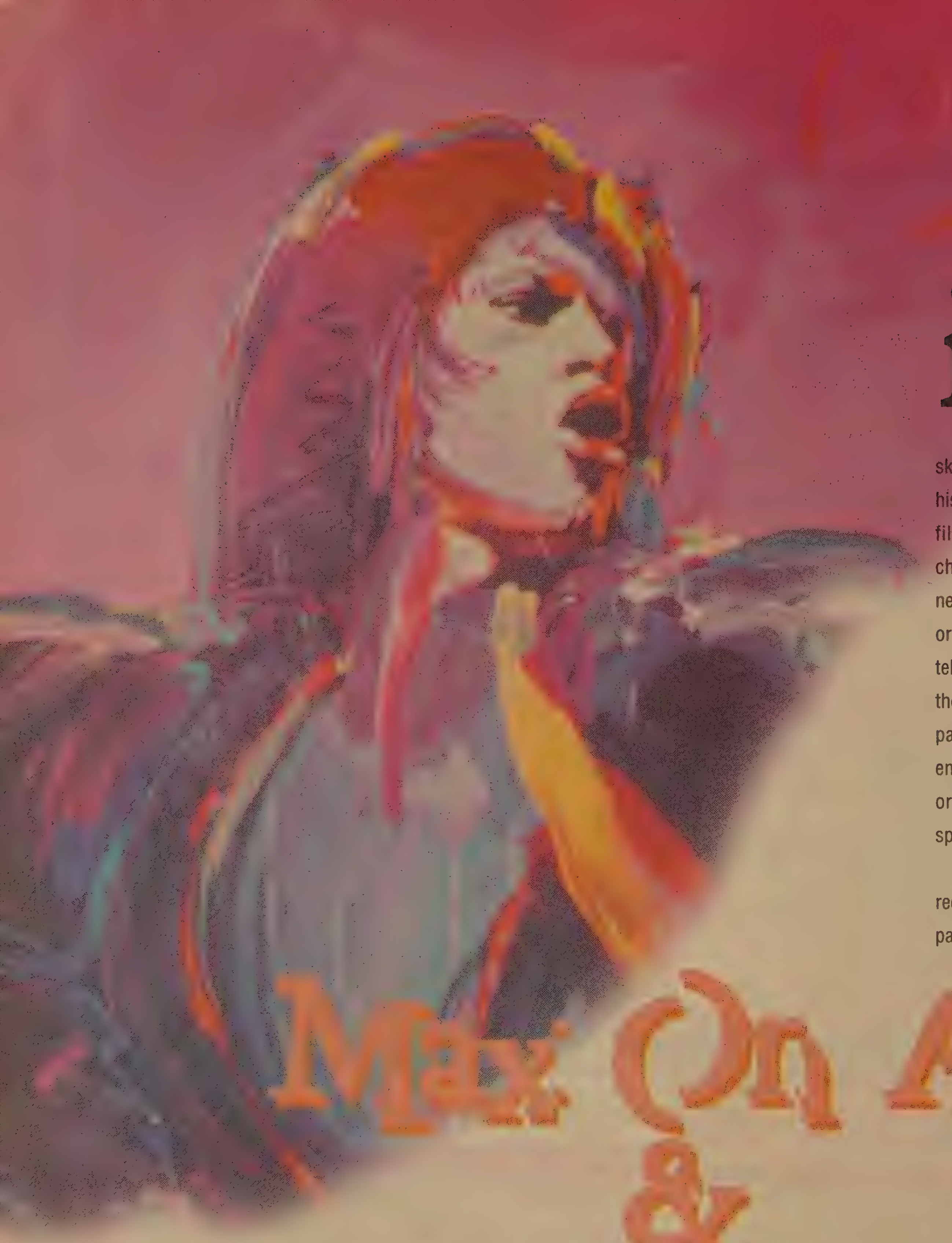
◆Medium Tower case w/230W PS	60
◆Full Tower case w/250W PS	80
◆Dual Floppy Drive 1.2+1.4MB	95



Instantly recognized for his celestial image and graphics on album covers such as th Beatles' *Yellow Submarine*, artist Pete Max has been credited with capturing th sensibility of a generation.

As a young artist Max worked to hone hi skills as a realist painter, but when he was still i his early twenties, the world of the early '60s wa filled with cultural, social, and technologica changes. Social explorations intersected wit new technologies, launching an explosion in co ors in print and broadcast media. Magazines an television were filled with photographs capturin the same vivid textures of our society that realis painters sought to capture on canvas. In thi environment, the "Max style" of brilliantly co ored cosmic imagery burst onto the scene an spread across the US and the world.

"I was drawn to stuff that had multi-media recalled Max. "It was the pencil, the pen, the o paints, the canvas, the TV camera, and the T

Max On Art & Evolving Media

By Michael Robin

COVER ART CREDITS:
Copyright © Peter Max 1995.
Originally done for Apple Computer's introduction of Power Mac 9500 and Color LaserWriter, June 1995.

broadcast that became an aspect of my palette. It didn't end just with the brush and paint—it had to do with what I paint, and how does it get out there and reach millions of people. That became my final canvas."

While history really doesn't repeat itself, it does often rhyme. The '80s marked the beginning of another set of kaleidoscopic changes in the elements of artistic creativity. These new tools include ever more powerful computers, increasingly realistic scanners and printers, dramatically lower-cost reproduction and distribution of digital work, and an expanding universe of software tools for creating breathtaking new works—in real-time.

Since the early days of personal computers, when Steve Jobs sent Max an Apple computer, to his involvement in the introduction of SGI's Indy Indigo workstation to his work at the launch of Apple's new PowerMac 9500 and Color LaserWriter 12/600 PS, Max has consistently welcomed digital technology as the latest addition to his creative toolbox. (This issue's cover art was originally created by Peter Max for the release of the Apple PowerMac 9500 and Color LaserWriter.)

As with his close ties to the Beatles as they helped shape the music and culture of the '60s, Max has been associated first with Apple Computer and more recently with Silicon Graphics, as they help shape communications and culture in the '90s. I recently met with Peter Max at his studio in New York's West Side near the Lincoln Center to talk about his art and the process of creativity in a world of evolving media.

When did you start using computers for your artwork?

I've used them off and on as computers and paintboxes developed. Computer labs and computer companies were always asking me to come by to show me their new equipment and ask me to play around with it. They'd set me up with an engineer who would guide me through it until I was off doing my own thing. But even as I got into it, I would become excited with the transition phases, the stuff between programs. When I asked "What's this?" they'd usually say, "Oh, that's nothing." But I was fascinated just the same and would spend hours making lots of amazing images and that's how my digital library began.

But even though I was excited, I felt it still had an electronic look. Then when the scanner came in, it added a whole new dimension. I was then able to draw something in my own technique with pen and colored pencils in my studio and later scan it in and enhance it on the computer.

Actually, when I first started getting into the electronic media it reminded me of how I got into my Cosmic '60s period. Should I go into that and tell you about my past background?

Sure, to give us more context.

I was a painter in the tradition of Valasquez and John Singer Sargent; these were my idols. I wanted to do great textures—where this chrome pot [*tapping the coffee pot*] would look like chrome, ceramic would look like ceramic, and cloth looks like cloth. This takes a lot of skill and I was a real good realist.

But when I came out of the Art Student's League in the middle '60s, in my early twenties, color reproductions in magazines were peeking. All the magazines were going full color and realism was not a big deal. Photographers like Bert Stern, Richard Avedon, and Irving Penn were the giants then. They were doing great photographs of textures, and I said, "I don't have to sit here and render these images when they are already being made by great photographers."

I was not really a commercial artist, but I made my living making record jackets. I remember, when I was in art school, and some of the guys who graduated before me would come back to visit. Four or five guys would come by, they looked disheveled and poor and I would ask them, "What are you doing?" "Well, I've got a one-room attic and I am painting. I'm getting better." But, once in a while someone else would drive by in an MG or Corvette and I'd go, "What are you doing?" and he'd say, "I'm on Madison Avenue—making ads, making book jackets."

It didn't take much for me to know where to start. So, I had one foot in the media world, which a lot of people perceived as being commercial, but was really in the world of media where things were being reproduced at high speed; doing a book jacket for a great author, doing a record jacket for a jazz label.

Luckily, having grown up in China, where I lived for ten years and another year in Tibet, I gained this wealth of graphics and it burst through me like an image bursting through another image. This became my kaleidoscopic Beatle-type, *Yellow Submarine*-type images and I started getting awards for every record cover, book jacket, and advertising campaign I did. I got something like two hundred awards a year. Every art director in America would start using me because if I would win an award his name would go on as art director.

I had a look all my own with the stars and cosmos, space ships, all this stuff that I am now very well known for. There was nobody that I was following; there was not even a role model in art that I could follow because Picasso and Cézanne, and Matisse, and Gauguin, they were long gone. The thing I remember about Picasso was that he always required a catalogue. That was his media. If he did a bull fight thing he would want a catalogue; if he had a small art show for four etchings, it was another catalogue. In his lifetime, they published two, three thousand catalogues. There was no radio for him, there was no *Life Magazine*; there was no MTV or VH-1 like musicians have today. Even today, an artist does not have a lot of that.

But, I tell you, if Picasso and Gauguin were alive today, they would probably love to do stuff for MTV. That's what artists do. They always want to go where there is a "media affiliation." Hundreds of years ago, artists used to paint ceilings and portraits for kings and queens. There was no sense in painting it for the local farmer next door. In the same sense, as an artist, I was attracted to stuff that was media affiliated—record jackets, book covers, and advertising things.

What was the influence of pop artists like Warhol and Lichtenstein, the generation just before you?

The pop artists like Warhol, Lichtenstein, Rauschenberg, Rosenquist, Oldenberg, all those guys were making art from popular items.

They were also taking pop culture heroes, and putting them on canvas. I wanted to create my own pop; I wanted to be "popular." I didn't want to paint another soup can or another big movie star, but I wanted my work to have a popularity like the pop artists the decade before me.

I think I was in my middle-late twenties when I was on the *Ed Sullivan Show* and later had a TV special. I was drawn to stuff that had multi-media. In other words, it was the pencil, the pen, the oil paints, the canvas, the TV camera, and the TV broadcast that became an aspect of my palette. It didn't end just with the brush and paint—it had to do with what I paint and how does it get out there and reach millions of people. That became my final canvas. And that slowly developed over the years.

There is a big circle going on now. When I brought an image into the '60s, I had to have a style that was relevant to the '60s. It had to be to art what, let's say, the Beatles' music was to the music world. It had to reach the interests of the mass culture the way the Beatles' music and other rock-and-roll music reached the mass culture. That art had to do with new age, cosmos, global awareness.

We were talking about global awareness and ecology in the '60s when nobody was talking about it. I brought Swami Satchidananda to America in '66. We used to have intellects and scientists from Cornell, MIT, come to hear the Swami speak. Afterwards, there were questions and answers. The questions these guys would ask the

Swami were, "What's going to happen to this world with the rain forests being cut down and the pollution in the air?" This was the first time in my life I would hear that—this is in '67–'68. These ideas didn't really become a cultural or popular notion until the mid-'70s and early '80s, and it wasn't until about '92 that we had the [United Nations] Earth Summit in Brazil.

So from the '60s, global peace was the first ideal. When I used to walk around with my friends in Central Park and talk about the state of the planet, we would look up at these huge skyscrapers and say, "Why don't *they* do something about it?" Meaning the establishment up there in the skyscrapers, corporate guys.

Today we are they, it's us. We are the guys who are on the media, we're the people doing it. In the '90s, you've got the whole electronic world happening. Information is almost like the rock-and-roll of the '90s. It's the things that everyone is talking about. There's as much discussion about the information age as there was about rock-and-roll maybe a decade earlier.

Because of this new technological age that we're coming into, we are creating a globalization of information. You could be in Zaire in four seconds, in Tel Aviv, in Singapore, you can talk to them in full color. You and I both know, in the next two to three years we will be talking to them in 3-D, whether we do it with glasses or not. That's where it's all going, there's no stopping it. It's absolutely happening.

The same way we are going to see a three-dimensional world that is very, very small, content providers, which I consider my studio to be one, are going to play a very large role between now and the turn of the century.

What do you see as the impact of the digital revolution on creativity and what you are doing?

It's all about creativity; it's all about enjoying. It has to be more and more pleasurable. What it will look like when the whole culture will use this equipment as they do when they put on a shirt in the morning, when it's just a part of life, is hard to predict because its moving so fast.

I'm looking at a world where I'm going to be creating stuff where the visual screen is going to be very, very large, on the wall. It's going to be completely full-color, three-dimensional; that I'll have maybe fifteen -to- twenty things simultaneously I could look at. I could be watching a movie or two and have people on hold. Instead of hearing my answering machine or a little bit of Muzak, they'll be seeing a little Max image moving. No one is going to ask the question anymore "What kind of computer do you have?" It's only going to be what's on it, who's on it, and what's happening today. The hardware is going to become invisible. No one ever asks, "What kind of light bulbs do you use? What kind of window pane do you have?" Who cares?

Engineers are creating the insides of the system.

What I want to add is the outer layer, the personality of the screen, how it interfaces with you, how you get to love it.

But that's the user side. As a content person how much do you see digital tools changing your work or, more generally, creativity?

My work is getting very interactive. It's a tremendously exciting visual adventure, and an opportunity to create with fantastic color blends and color combinations and positive imagery for whole new futuristic worlds—and it's going to be full of surprises.

The business side will have the business look, the family side will have the family look, but it will be all in one screen. Let's say you're a man working in an office managing a company. You do all your regular business in this screen that appeals to you. There may be a person next to you with a different screen—same information, except more colorful. Another may love sports and have a sports look.

At the same time, if you have a little icon in the upper corner which means wife and children, it won't be just an icon of an X or a triangle. It'll have a look that you'll say, "This looks like the way I want my family to look." So, while someone is doing their regular business, they could take a couple of minutes and manage the family, then close it up again. The Peter Max thing will give people all of these different looks. It's going to have the look that you want it to have, and I'll give you a choice.

The thing that I'm looking forward to most of all is my involvement with the palmtops. As an artist I want to develop the future palmtop. The palmtop that I'm going to create is going to be in full color.

I remember when the first Apple came out and Steve Jobs sent me one. I called him up to thank him. It was black-and-white and I was excited. Then I thought to myself "I wish it was full color." When I called him, I said to him, "Steve, thanks so much for the Apple you sent me. I love it, it's unbelievable, and by the way, when is your color one coming out?" He was quiet. He was quiet on the phone for half a minute. He said, "It'll be here soon. It may be a few more years." He was still in the joy of just having created that. It was a tremendous piece of creation. But the thing is, as a user, as a creative user, I wanted it to be color.

At that time, my friends who were starting to use computers would say, "I can't use it yet. I don't have color," or "I have to put something on the screen, then I have to open a box and park it, and I've got sixteen things parked. It's much easier for me to use my hands and tools."

The same way, I would like to create the [interface of the next] palmtop that's going to be for the fashion designer, for the art director, for

continued on page 328

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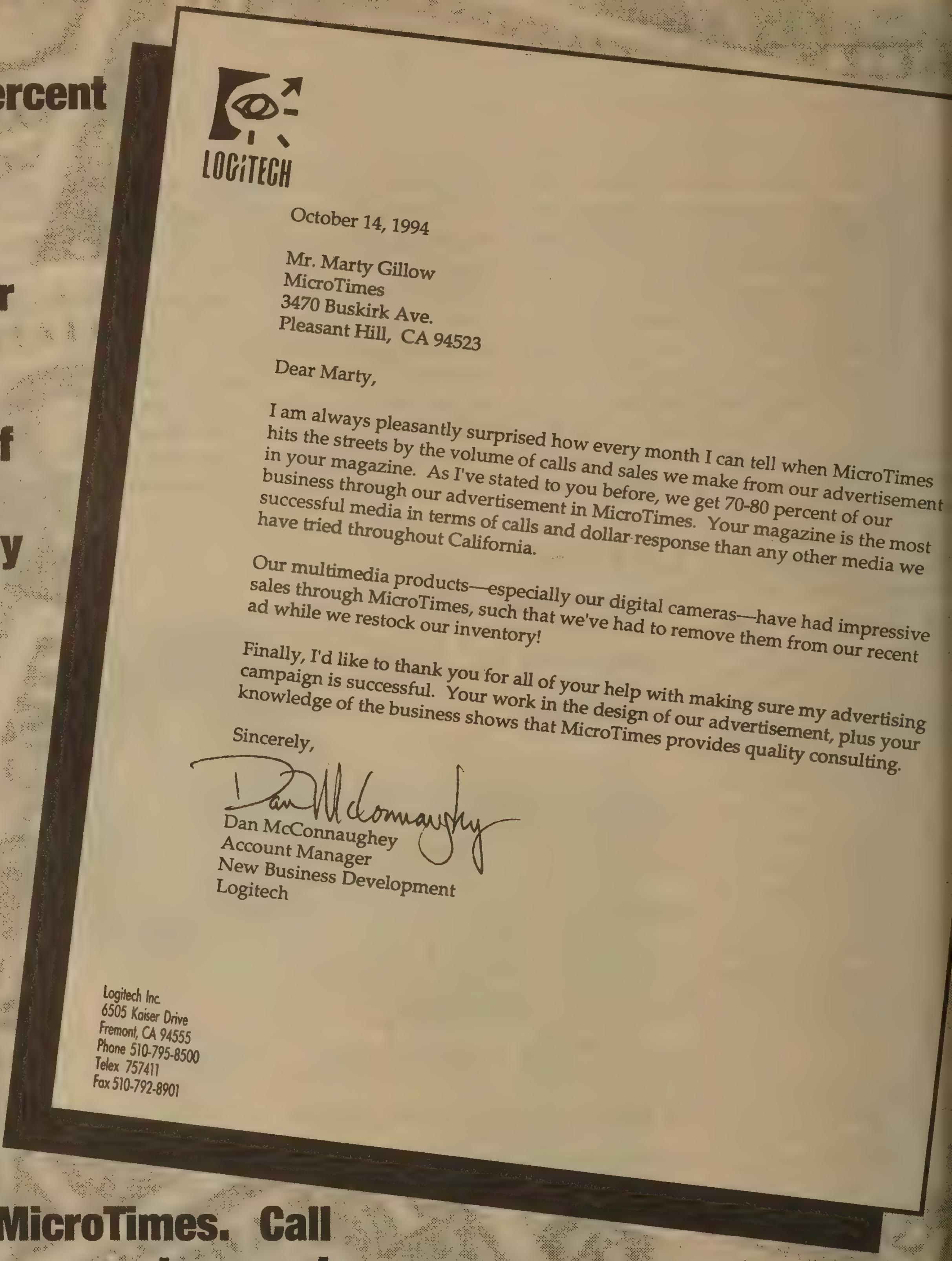

LOGITECH

October 14, 1994

Mr. Marty Gillow
MicroTimes
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P5 - 60MHz	1,068	1,088	1,138
P5 - 66MHz	1,138	1,158	1,208
P5 - 75MHz	1,188	1,208	1,258
P5 - 90MHz	1,278	1,298	1,348
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INTEL P5 - 60Mhz / 66Mhz	$CALL
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INTEL P5 - 100Mhz	$CALL
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- 2 - 16550 Serial & EPP/ECP Ports on board
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- 15" SVGA Monitor, 1280x1024, .28dp, NI
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- MultiMedia Speakers
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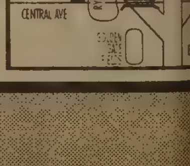

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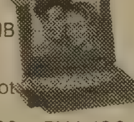

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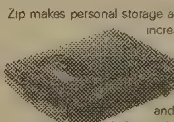

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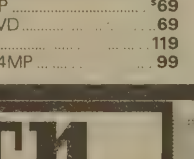

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BMUG • By David Morgenstern

Report Back From Boston Macworld Expo

This month we take a hard, cold look at the hot goings-on at August's Boston Macworld Expo. Steaming like dim sum in the East Coast humidity, the 60,000+ attendees found the semiannual show a Macintosh love-fest. Actually, the weather was great—considering that a killer heat wave had rolled into the Northeast several weeks before the Expo. It made the usual hot weather during the show almost seem like a trip to the North Pole.

If only every Mac user could make a pilgrimage to the actual crossroads of the Mac world, the BMUG main meeting, they'd find an Expo-style experience every week!

Exponentially Great

In bygone years, the combination of high heat and high humidity have frequently taken some of the starch out of Expo attendees. But at this year's show spirits were especially high, even in the face of the relentless and unavoidable hype surrounding Windows 95.

Last year particularly, I felt a byte of malaise had crept over both the crowds and the vendors hawking their products. The first generation of Power Macs had just shipped, which was great news, but there seemed to be concerns over the viability of the Mac and Apple.

This year, in the face of P.T. Barnum-level Windows publicity, the Mac community took a good look at itself in the mirror and liked what it saw—screaming new PCI Power Macs, an aggressive clone market, and lots of fantastic products. The Mac platform is alive and kicking!

Attendees tolerated with smiles even the sly harassment of a clown at the Power Industries booth; he was a real clown, not a run-of-the-mill marketing type. He was shilling the company's Math Circus program and magically persuaded suit-and-tie business execs into wearing elaborate balloon hats. They could be seen for blocks walking around the Expo.

The new lineup of PCI Macs—the Power Macintosh 7200, 7500, 8500—were of primary interest to the crowds at the Expo. The PCI models were such a big draw that they changed attendance patterns of the show.

The summer Expo is divided between two venues, the main hall at the World Trade Center near downtown Boston and the Bayside Expo Center, located about twenty minutes away. Bayside was considered by vendors to be the second-class spot, since most attendees start their Magical Mac tour at the Trade Center. No longer!

Instead of hanging out in a cramped, air-conditioned circus tent alongside the WTC—and forcing people to wait in lines in the sun—Apple this year placed its booth indoors at Bayside. Now with PCI Macs, both joints were jumpin'.

Eye To Eye With PCI

As we mentioned a couple of months ago after the release of the Power Mac 9500, the new models use a high-speed Peripheral Component Interconnect bus instead of the old-fashioned NuBus, which has been used on modular Macs since 1987.

PCI is used by many different segments of the computer industry, from desktop machines to workstations meaning that Mac users will no longer be confined to a Mac-only market with a rather limited number of developers and high ticket prices for Mac-only cards. Both PC and Mac vendors at the Expo demonstrated PCI cards offering large monitor support, graphics acceleration, speedy storage, fast networking, and DOS coprocessors.

Apple's new PCI models move the performance gains from the high-end six-slot 9500 down to entry-level desktops. Although familiar on the outside to Mac users, the new machines all have three slots using the flexible and fast PCI bus.

There's quite a range in prices, too. More bucks gives you faster processors, bigger hard drives, and different built-in video display and output capabilities.

The two configurations of the entry-level 7200 cost from $1700 to $1900. The 7500/100 is about $2700 and the 8500/120 is about $3900. Some BMUGers at the show said that the 7500 looks to be the next IIci, a machine with a lot of "legs," or longevity.

If you attend a BMUG meeting then you should write down the code names for the models, since most people don't like to use the numeric designations. Catalyst, TNT, and Nitro are the names for the 7200, 7500, and 8500, respectively. Tsunami was the code name for the 9500.

This Boston Expo was also the first show featuring Mac clones on the floor. Try hard to avoid saying the word "clone" in any of their booths; some of the sales reps have a cow if they hear their precious babies referred to as "clones." They prefer you call the machines "compatibles."

Although not having a booth, Power Computing made a big splash at

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the show by placing more than fifty of its 8100/100-flavor machines around the floor. Radius and DayStar Digital also invited people to pound away on their new clones. The BMUG booth had Power and Radius boxes for attendees to play with.

The BMUG Zone

BMUG's booth at the Expo also showed off the latest edition of the semiannual *BMUG Newsletter*. The book (we call it a newsletter, but it's hundreds of pages long) is filled with great stuff and has in-depth articles on the forthcoming Copland operating system, OpenDoc technology, and World Wide Web tips, as well as more than seventy reviews.

Hans Hansen, BMUG's publications manager, did a neat less-is-more trick with this newsletter. By tweaking the layout and shrinking the typeface, he jammed 700 old-style pages of information into 344 pages; the process also saves BMUG dough for shipping and handling.

Instead of a floppy disk, this newsletter comes with a CD-ROM disc featuring 200MB of shareware and 50MB of updates for commercial products, as well as many versions of Apple system software, utilities, and updates. The disc also has demo versions of some programs found in the BMUG Choice Product list, so you can try something out and see if you agree with our selections. In addition, the CD also has a number of terrific audio tracks done by BMUGer Manabu Ishikawa, a San Francisco Bay Area composer.

If you want both of these perfect additions to your Mac library, all you have to do is join BMUG and you'll get the pair as well as a bunch of other benefits, including our Planet BMUG online service. You can call the BMUG office at 1-800-776-2684 to become a member. Please also take a peek at our new Web page at *http://www.bmug.org/*.

Expo Expository

There were many exceptional products introduced at the Expo and too many to enumerate here. But that will not stop me from running on about a few standouts:

•The program at the top of many BMUGers' lists was PageMill, an editor for World Wide Web pages from Ceneca Communications. The $195 software has a graphical user interface and works much like a word processor. "I want it *now!*" said Lorca Hanns, one of BMUG's primary Internet gurus.

PageMill looks just like a Web browser, but with a special toolbar across the top. It gives you a WYSIWYG environment to create a page. Instead of having to fuss with the HTML (HyperText Markup Language) code that is the foundation of a Web page, you can drag and drop text and graphics on the document as well as move them around as you would in a draw program.

PageMill has tools to do all the fancy stuff that people are unfortunately crowding their pages with, including background colors, pop-up lists, and radio buttons. The program has a pretty good image editor and can convert PICT images to GIF automatically.

Another Ceneca program that had people jumping up and down was SiteMill, a $795 Web administrative tool that helps managers maintain hypertext links at a site.

One of the major headaches dealing with a Web site is broken links. Whenever an image file is renamed or files are moved, the corresponding links are broken, since all the links refer to the old names and pathways. The result of this is the infamous Error 404 message that is familiar to all Web devotees.

SiteMill maintains the links and gives managers a graphical overview of all the images, files, and folders on a site.

•Hans Hansen put his hardware vote in for Casio's $999 QV-10 camera. Unlike the QuickTake 150, the QV-10 is quite small, about the size of a small film camera. It has the look of Sharp's video camcorder, with a back-panel color display and a side-mounted swiveling lens. You can move the lens up and down while you peer down into the display—then click!

The camera's little LCD lets you check out the shots you've taken and clear out the ones you don't want to keep. It can show the images one at a time, or up to nine fingernail-size ones at once. It holds an amazing ninety-six images, but the shots don't have the resolution of the QuickTake.

A cool feature is the ability to upload PICT and TIFF images from your Mac to the camera. You can then show them to people on a television using the camera's video-out port.

There was other camera news at the Expo. If you're into QuickTime VR, Apple's new virtual reality environment, you might want to check out Kaidan's new $109.95 QuickPan tripod head for the QuickTake 100 or 150.

QuickPan lets you pan automatically to various positions for the proper overlap of shots needed to create images used by VR technology. It was very neat and can mount on any tripod.

•Connectix wowed the crowds with its release of SpeedDoubler, a utility that speeds up 68K emulation for Power Macs and optimizes the way that the Finder copies files. It reportedly can give you an 80% to 100% boost in performance! Pretty good for only $99.

•Paris Business Products showed CompuNotes, some interesting personal accessories. The company takes old scrap motherboards, without the chips, resistors, and other parts, and uses them as the covers for notebooks, clipboards, journals, and address books. A small journal notebook cost me $10. Their letter-size three-ring binder has plenty of style, but it unfortunately also weighs a ton, even without paper. But if you're in buff condition then check it out. ■

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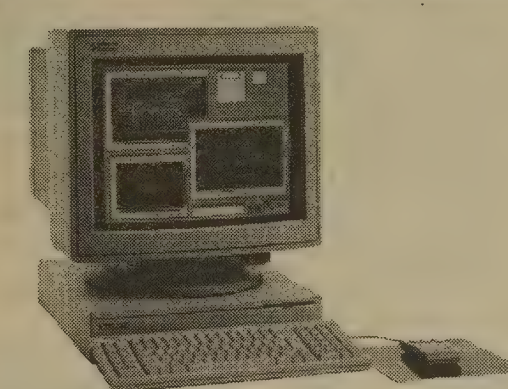

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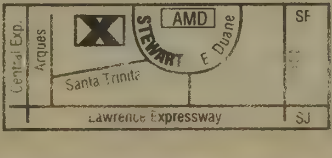

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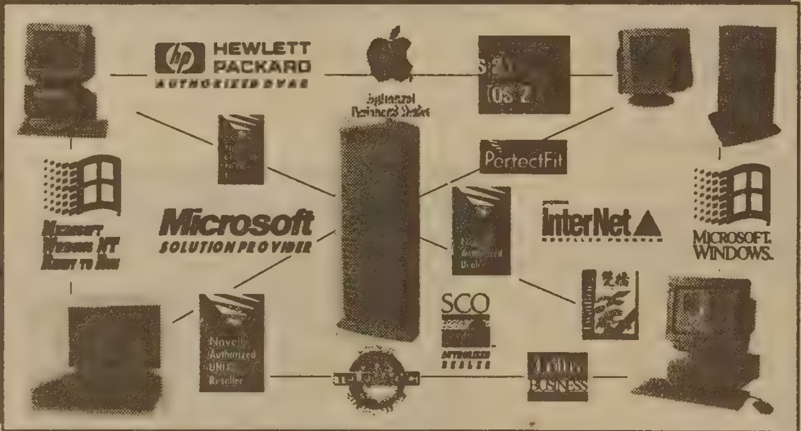

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Accura 288V.34 Int/Ext	$174/204
Optima 288 V.34 Int/Ext	$379/409

Megahertz

PCMCIA XJ1144 Fax(MNP5)	$179
PCMCIA X.12144 Fax (MNP10)	$194
PCMCIA CC3288 or XJ2288	$299

ZOLTRIX

14400 FaxModem/w. Voice Int	$45/59
14400 FaxModemExt	$85
28800 FaxModem V34 Int/Ext	$125/135

PRACTICAL PERIPHERALS

14400 FAx/Modem Int/Ext	$84/109
28800 Fax/Modem Int/Ext V.34	$189/215
PCMCIA 14400 Fax/Modem	$149

U.S. Robotics

Courier 38800 V.34 Int/Ext	$379/$425
Sportster SI 14400 Int	$73
Sportster 14400 Int/Ext	$89/$111
Sportster 28800 V.34 Int/Ext	$184/$204
Sportster PCMCIA 14400/28800	$179/$359
World Port PCMCIA 14400	$189

IBM 486-75 VLB

- IBM 486-75 MB w/CPU, Math Co.
- 2 VESA Local Bus w/ 256K Cache
- 4MB RAM 70ns
- 1.44MB Floppy Drive
- On Board IDE w/ 2S/2P/1G
- 540MB HD
- 32 Bit VLB Video w/ 1MB
- 14" 1024x768 .28 dpi SVGA
- Mitsumi 101-key Keyboard
- 2 VESA Local Bus w/ 256K Cache
- 230-Watt Power Supply
- 3 Button Mouse & Pad
- Ms Windows 95

$899

ZOOM

14400 FaxModem/w. Voice Int/Ext	$109/$159
28800 FaxModem & Voice Int/Ext	$199/239

MONITORS

ACER

17" AV76L 1280 X 1024 .27	$609
15" AV55/AV56L DIGITAL	$304/349

ADI

4GP 15" .28dp 1280x1024	$365
5EP 17" 1280x1024	$639

CTX

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17" 1280x1024 .27dp	$649

HITACHI

CM 1586U 15" 1280 x 1024 .28dp	$385
AM 1797 17" 1600 x 1200 .26dp	$954
NS 1764 17" 1280 x 1027 .26dp	$779

IIYama

MF-5315 15" 1280 X 1024 .28 DP	$425
MF-8617 A 17" 1600 X 1280 .26 DP N.I.	$750
MF-9121 21" 1600 x 1280 @ 72HZ.30DP	$1730
MF-8421 21" 1600 x 1280 .25DP	$2145

IMPRESSION

3+ 14" 1024 X 768 .28dp NI full screen	$220
5 15" 1280x1024 .28 NI flat screen digial	$308
7 17" 1280 X 1024 .26 NI	$582

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15F DX no LED 15" 1280 X 1024 .28	$368
15F MX Flat, 15" 1280 X 1024 .28	$444
17F DX 17" 1280 X 1024 .26	$699
17F MXP Flat, 17" 1600 X 1280 .26	$890
21F MX	$1682

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T2-17 .25dp 1600 x 1200 NI	$1239
T2-17TS .25dp 1600 x 1200 NI	$969
T2-20 .30 dp 1600 X 1200 NI	$1968
F2-17 .28dp 1280 X 1024 NI	$834
F2-17EX .28dp 1600 X 1200 NI	$927
F2-21.28dp 1600x1200 NI	$1898

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XV15/XE 15/XP15	$435/$520/$630
XV17/XE17/XP17	$749/$935/$1173
XE21/XP21 21"	$1875/$2295

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CONSUMER ELECTRONICS

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447L 17" 1024 x 768 .28 DP NI	$739
447 X 17" 1600 x 1280 .25 NI	$995
447 X 17" 1600 x 1280 .25 NITCP	$1134
4455 X 21" 1600 x 1280 .28 TCO	$2449

Panasonic
Office Automation OA

C1791E 17" 1280 X 1024 .28 dp	$739

SHAMROCK

15" .28 dp Digi Control 1280 x 1024	$329
17" .28 dp Digi Control 1280 x 1024	$589
EX VIEW 14" N.I.	$229
EX VIEW 15" N.I.	$319

IIYama (IDEK)

MF-8617A

- MPR II Low Radiation
- 17" Flat Screen Monitor
- Energy Conservation System
- VGA to 1600x1200 Resolution
- Super High Refresh Rates:
  100Hz Maximum at 1024x768
  80Hz Maximum at 1280x1024
  69Hz Maximum at 1600x1200
- .26mm Dot Pitch
- Microprocessor Controlled
- 3 year Warranty

SONY

15SF 15" 1280 X 1024 .25	$469
17SF 17" 1230 X 1024 .25	$819
20SE 120" 1280 X 1024 .30 NI	$1810

VIEWMAGIC

15" 1280 X 1024 .28 NI w/Processor	$285
17" 1280 x 1024 .26 PD NINT	$549

ViewSonic

6E 14" 1024 X 768 .8 NI	$259
15ES 15" 1024 X 768 .28 NI	$369
15G 15" 1280 X 1024 .8 NI	$406
15 15" 1280 X 1024 .26 NI	$421
17G 17" 1280 X 1024 .28 NI	$682
17 17" .27 1600 X 1280 NI	$794
20G 20" X28 1600 X 1280 NI	$1290
21PS 21" 1600 X 1280 .26 NI	$1695

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900S 14" .28 1024 X 768_NH	$235
1000S 14" .28 1024 X 768_NI	$259
1562A 15" .28 1280 X 1024_NI	$358
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4000TC 17" TRINITRON .25 1024X768	$769
4500DC 17" .8 DIGITAL NI 1600 X 1280	$735
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Monochrome 14"/Monochrome VGA 14"	$79/85
SVGA 14" .39dp	$179

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Keytronic

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MAXISWITCH

2189 101-Key / 124-Key	$26/55

MICROSOFT

Natural Keyboard	$89

MITSUMI

Model Z / Model R 101-Key	$12/22

NORTHGATE

Omni 101	$60
Omni 102	$61
Ultra Omni	$83

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CC:Mail Desktop 10 User License	$359
CC:Mail Group Pack for win w. Organizer	$595
CC:Mail Lan Trade-up 10 License(router)	$375
CC: Mail Lan System 10 License	$545
CC:Mail Mobile E Mail 2.0 for win	$135
Lotus 1-2-3 5.0 for Win/DOS	$279/359
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PFS Works for Windows	$29
WordPerfect 6.1 (WIN)	$249
MS Window NT 3.5 (Work Station)	$295
MS Window NT 3.5 (Server)	$665

IIYama (IDEK)

MF-9121

- MPR II Low Radiation
- 21" Flat Screen Monitor
- Energy Conservation System
- VGA to 1600x1200 Resolution
- Super High Refresh Rates:
  110Hz Maximum at 1024x768
  85Hz Maximum at 1280x1024
  72Hz Maximum at 1600x1200
- .30mm AG Pitch
- Microprocessor Controlled
- 3 year Warranty

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CITIZEN

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EPSON

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LaserJet 4Plus	$1389
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LaserJet 5P	$959
LaserJet 5MP	$1369
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ML590 24pin	$575
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OL410E Laser 4PPM,600dpi	$530
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Panasonic
Office Automation OA

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2123 24 pin	$199
Color Kit for 2123	$54
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4440 Laser Printer 10ppm	$989

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Trackman Retail	$73
Trackman Oem	$49
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Mouseman Bus	$59
Mouseman Cordless2	$89

MICROSOFT

Serial/Bus (w/System)	$35/$55
3 Button Mouse	$7

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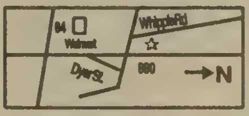
Laitron Union City



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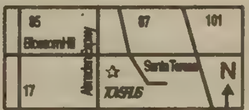

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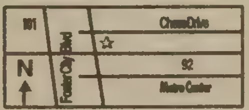

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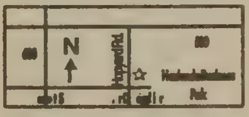

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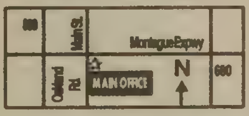
☆ Laitron Main Office ☆



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Basic PRIVACY Procedures

Steps You Might Want To Take To Achieve An Appropriate Level Of PRIVACY And Security

By Robert Moskowitz

Within the last few years, at least a portion of the American population has begun to voice more support for privacy protection than ever before. People from all parts of the political spectrum are talking, and even working together to fight what they perceive as the current "anti-privacy" trend in our country, and around the world.

Americans are generally proud of our long tradition of privacy and freedom from unnecessary surveillance and "search." But many people feel that today's legal system has allowed privacy to be significantly eroded.

In their view, Europe has moved far ahead of us in establishing unified data protection authorities and passing laws protecting privacy far more stringently that in the United States. There may be a good deal of truth to this allegation.

Legal Protections

The Privacy Act of 1974, for example, protects only against the abuse of records maintained by US government agencies on American citizens. It says nothing about privately held records or information concerning citizens of foreign countries. And many say there is precious little enforcement of this statute, in any case.

That's one reason there is a steady stream of legal battles about the legality and propriety of selling motor vehicle databases, which contain information collected by public agencies about such private matters as your address, age, height, weight, eyesight, health, and the kind of car you own.

Medical, insurance, and employment records are also spottily protected, and the protections are unevenly enforced.

The Electronic Communications Privacy Act of 1986 set a new standard by allowing telephone companies to sell their records of our phone calls to almost anyone who wants them.

In this milieu, people are understandably concerned not only that agencies of the government might be logging your email messages or recording your cellular telephone calls, but that for-profit corporations might be collecting, correlating, and selling detailed dossiers on you without any concern about why or how they will be used.

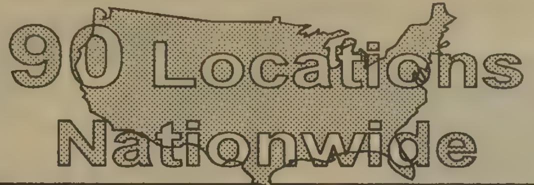
New Threats

With the advent of the Internet, and its phenomenal popularity, our society is developing a need for an entirely new mechanism to monitor and protect so-called "transactional data" and other records that can be correlated to reveal details of an individual's most intimate preferences, habits, and behaviors.

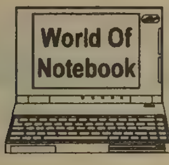
The future could be far more frightening, with new technologies making it possible for intruders to track not only your spending habits, but combinations of your interests in political issues, your voting patterns, and your business relationships.

Is anyone surprised there are proposals for the Federal Bureau of Investigation to collect and maintain a national database of DNA identification records?

PC WAREHOUSE



You will come for the price
You will stay for the service



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Intel i486DX2/50 or DX4/75
Active , Dual Scan Color , Monochrome

ThinkPad 360CE/DX2-50 4/340	$Call
ThinkPad701CS/DX4-75 8/540	$Call
ThinkPad701C/DX2-50 4/540	$Call
ThinkPad701C/DX4-75 8/540	$4035

ThinkPad 755

Intel i486DX2-50 or DX4/75 or DX4/100
or Pentium 75
Active or Dual Scan Color

ThinkPad755C/75-540	$Call
ThinkPad755CSE/100-540	$Call
ThinkPad755CE/100-540	$Call
ThinkPad755CD/100-810	$Call
ThinkPad755CV/100-810	$Call
ThinkPad755CX(Pentium75)-810	$Call

NEC

Versa P Series

Pentium 75 MHZ CPU

Versa P/75C-810	$Call
((Pentium , 8MB RAM, 810 MB HDD,Active Color)	
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2000C, DX4/75, 9.5" TFT, 8/540MB	$2559
4000C	$Call

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3010-250	$Call
(i486DX2/66, 10.4" Dual Scan,4MB, Glide Point)	
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Contura 430CX, X4/75, 10.4" TFT, 8/720MB	$Call
LTE Elite 4/75CXL, X$/75, 10.4" TFT, 8/810MB	$Call

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T2100CS/CT-330	$Call
T2110CS-330/DX4/75-4/8MB	$1959
T2130CS/CT-500-DX4/75-8MB	$2435
T2150CDS-500-DX4/75-4MB	$Call
T2150CDT-500-DX4/75-8MB	$Call
T2400CS-250-DX2/50-4MB	$Call
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(Pentium 75 Mhz, 8MB RAM, 810MB HD, Active Color, 1PCMCIA III, SCSI II, build-in 16-bit sound card, internal speakers .and more.......)	

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SHARP.

8150/8650/8650II-4MB	$199
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NEC

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Veras E/V/M/P 8 M 3.3v	$389
Versa E/V/M/P 16MB 3.3v	$679
Versa S/2000/4000	$Call

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Xircom PCMCIA Ethernet 10BT	$155
3COM PCMCIA Ethernet 10BT	$169
Maxtor 130 MB PCMCIA III HDD	$289
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New Media Wav Jammer Sound	$299
US Robotics 28.8 Fax/Modem	$Call

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Intel 486dx2-50 CPU	Intel 486dx2-66 CPU	Intel 486dx4-75/100 CPU	Intel Pentium 75CPU	Intel Pentium 90/100CPU	Intel Pentium120/130 CPU
256K Cache, 3VLB	256K Cache, 3VLB	256K Cache, 3VLB	256K Cache, 4PCI/4ISA	256K Cache, 4PCI/4ISA	256K Cache, 4PCI/4ISA
0-128 MB RAM	0-128 MB RAM	0-128 MB RAM	0-128MB RAM,2S/1P/1G	0-128MB RAM,2S/1P/1G	0-128MB RAM,2S/1P/1G
VLB IDE Ctl w/2S/1P/1G	VLB IDE Ctl w2S\1P\1G	VLB IDE Ctl w/2S/1P/1G	Enhanced IDE-PCI	Enhanced IDE-PCI	Enhanced IDE-PCI
TEAC 1.44 Floppy Drive	TEAC1.44Floppy Drive	TEAC1.44 Floppy Drive	TEAC1.44 Floppy drive	TEAC1.44 Floppy drive	TEAC1.44 Floppy drive
Mini-Tower Case w/250w	Mini-Tower Case w/250w	Mini-Tower Case w/250w	Mid-tower case w/250w	Mid-tower case w/250w	Mid-tower case w/250w
101 Enhenced Keyboard	101 Enhenced Keyboard	101 Enhenced Keyboard	101 Enhenced Keyboard	101 Enhenced Keyboard	101 Enhenced Keyboard
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NEC XE21/XP21	$1799/$2159
SONY 15SF/17SF	$489/$879
SONY 17SE/20SE	$1095/$1879
ACER 34T/55	$239/$329

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HP LaserJet4L/4ML	$499/979
HP LaserJet5P/5MP	$879/$1049
H LaserJet4+/4M+	$1389/1899
HP 4V/4MV(16PPM, 11X17)	$1889/2699
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Conner 1.08GB 9ms SCSI	$369
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WD-31200 1.0GB 10ms IDE	$299
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Quantum 1.2GB 12ms IDE	$289
Quantum 1.0GB 10ms SCSI	$379
Quantum 2.1GB 10ms SCSI	$809
Syquest 270 SCSI Int/Ext	$439/499

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NEC 6xi	479
SONY 55E int IDE	$99
TOSHIBA 3601B/5302B Int	$289/$169
Mitsumi Quad Speed Int IDE	**$169**
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SoundBlaster16SCSI-2	$109
SoundBlaster AWE32	$239

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9GXE64 Pro 4MB VRAM VLB/PCI	$489
Kelvin 64 1MB VLB/PCI	$139
S3 SVGA 1MB VLB/PCI	$75
Trident ISA/VLB/PCI 1MB	$65/$75$79

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Buslogic PCI-SCSI w/kit	**$229**
Buslogic VLB-SCSI w/kit	**$199**
Adaptec 2842 SCSI VLB w. kit	$239
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Promise DC-4030 IDE VLBw/4HD	$105
IDE-PCI w/2S/1P/1G	$35

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Colorado DJ-35C/25C 350/700MB	$139/$195
Colorado Trakker 350/680MB	$279$339
Colorado PT10 1GB	$599
Conner 4320 Interal 2GB	$749

MODEMS

Zoltrix 14400 Fax/Modem Int	$45
Monterey1400Fax/Modem Ext	$65
US Robotics 14400 Fax/Modem Int	$99
US Robotics 14400 Fax/Modem Ext	$119
Zoom 28800 Fax/Modem Int	**$149**

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1MB X 9-70ns(3 chips)	$Call
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256k X -70ns(3chips)	$Call
1MB X 36-70ns	$Call
2MB X 36-70ns	$Call
4MB X 36-70ns	$Call
8MB X 36-70ns	$Call

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Logitech Trackman Portable	$39
Microsoft Mouse serial(w/sys purchased)	$20
Qtronix 2-button serial	$9
Microsoft Natural Keyboard	$89
Monterey 81 Key Mini keyboard	$45

Santa Clara

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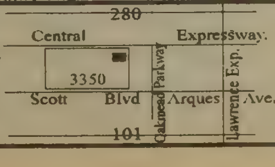

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Basic Privacy Procedures *continued...*

It's not difficult to imagine a scenario in which corporate or government interests lead to routine monitoring of these matters for millions of citizens, and on that basis to selective support of, or opposition to, individuals' day-to-day activities.

Levels Of Privacy And Security

All this helps explain why uncounted thousands of people are struggling to overcome the "security is not important" training from their formative years—akin to growing up in a rural community where everyone goes to sleep each night with all their doors and windows unlocked—and trying to replace it with simple, practical habits to help maintain their personal privacy in an increasingly voyeuristic world.

Before we launch into the details however, let me define five levels of need for privacy and security.

Level One: You're trying to arrange a private one-time meeting, perhaps for sex, perhaps for a business deal, or for something else. You can remember all the details, so you have no need to keep records or correspondence.

Level Two: You're trying to manage a private ongoing relationship, perhaps for sex, perhaps for business, or for something else. Because there's far more data than you can remember, you need to protect some records. Also, you want to maintain a semiregular flow of private and secure information to and from your "partner" in this enterprise.

Level Three: You're conducting normal, legal business activities that you want to keep private and secure—perhaps from competitors, perhaps from unknown others who might gain by knowing the details of your thoughts, decisions, and actions. Now you need to maintain the privacy and security of extensive written records, business transactions, and regular communications. But for the business to make sense and earn a profit, your privacy and security efforts must remain cost-effective and personally convenient.

Level Four: You're conducting some form of illegal business that you definitely want to keep secret from both random and purposeful prying eyes. Your activities involve many of the same procedures as for Level Three, except that privacy and security are far more important.

Level Five: You're actively involved in fomenting armed revolution and/or acts of terrorism. Your activities involve many of the same procedures as for Level Three and Four, but privacy and security are now of paramount importance, regardless of cost or inconvenience.

Be warned: My thinking runs only to Level Three. Anyone who is interested in Level Four or Five privacy and security will not find useful tips or techniques here.

Given that we're focused on practical, cost-effective techniques for maintaining privacy and security that's sufficient for ordinary acts of a personal or legal business nature, I'll try to provide a breakdown of some steps you might want to take to achieve an appropriate level of privacy and security.

Let's begin with some of the simpler concerns:

Telephone Privacy

Nautilus is a program that lets you enjoy encrypted voice telephone conversations with other people. There's no special equipment required. All you need is a personal computer (386/25 or faster PC with Sound Blaster-compatible sound board, or Sun Sparcstation) and a high-speed modem. Speech quality is acceptable at 9600bps and reasonably good at 14.4Kbps. Currently, the system won't work at slower modem speeds.

continued on page 258

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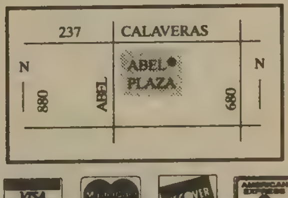

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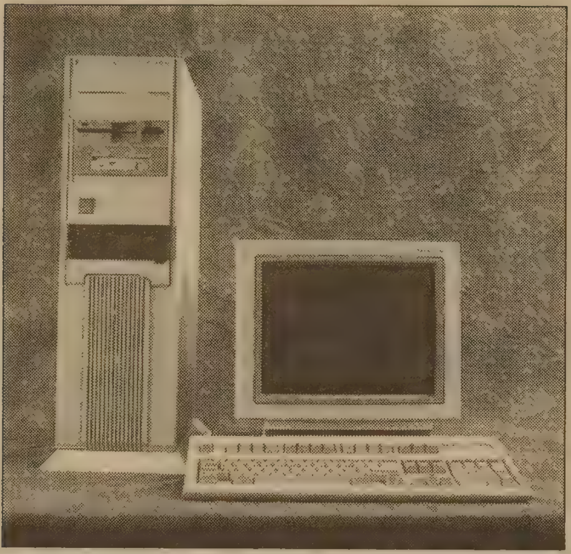

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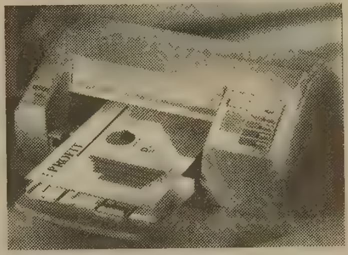

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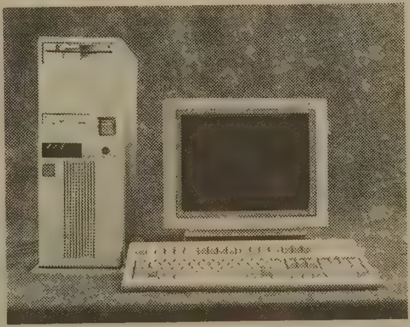

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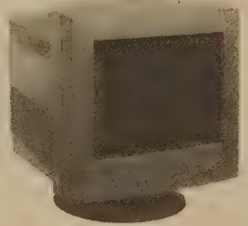

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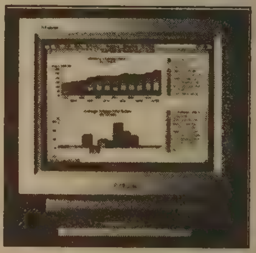

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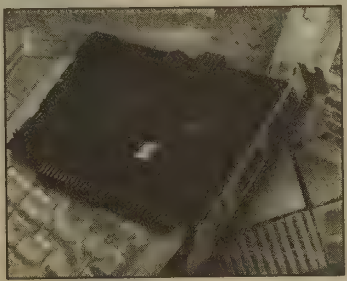

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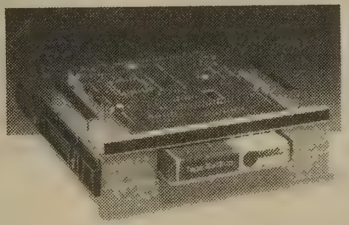

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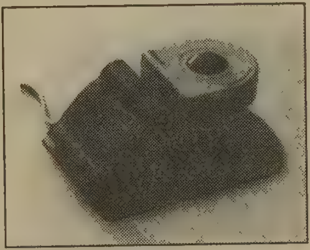

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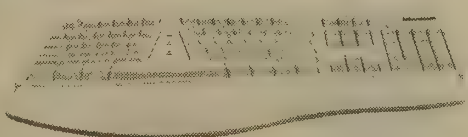

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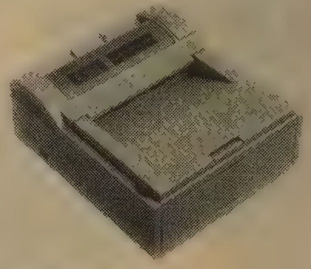

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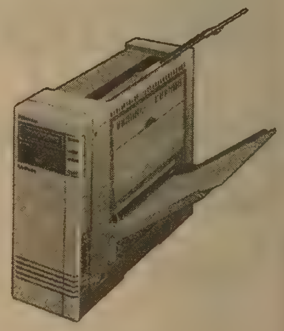

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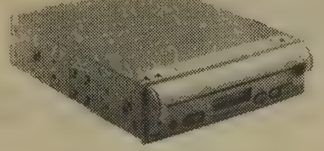

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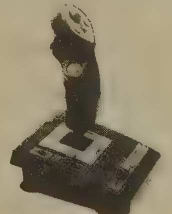

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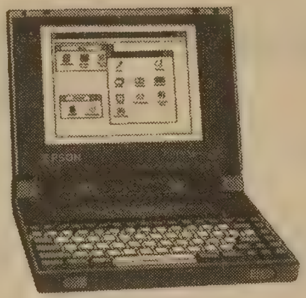

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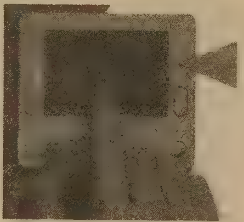

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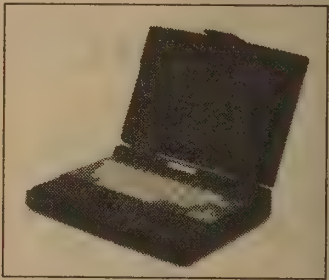

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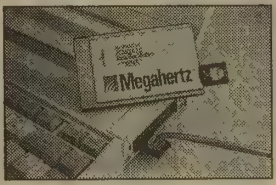
XJack 2288



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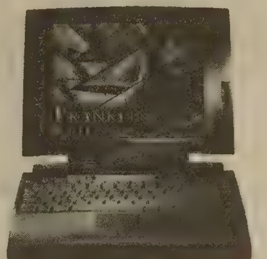

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Award Winning Notebooks!

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w/ 90MHz Pentium Processor

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Upgrading To WINDOWS 95

Hardware Requirements You Should Consider When You Upgrade

By
Woody
Liswood

Don't be surprised if it takes a few days to get used to the new environment. But after you adjust, I expect that you will like it better than Windows 3.11.

Microsoft is busy making sure you know that Windows 95 is now available. If you decide to upgrade don't be surprised if it takes a few days to get used to the new environment. But after you adjust, I expect that you will like it better than Windows 3.11. Memory management is better, the system responds logically—after you understand the logic—and plug-and-play is a charm when setting up a system, adding new equipment, or just changing things around. ✿ Over the past six months you have probably heard and read about what you *really* need to run Win 95. After beta testing the countless revisions, in my opinion you should have a 486 or better. I ran Win 95 on a 486 66MHz, an AMD 486 100MHz, and an AMI Pentium 90MHz. They all worked. Perhaps more important for performance is how much RAM you have. I suggest getting all the RAM you can—seriously consider 32MB. ✿ You will also need lots of storage space on your hard drive. I kept running out of space on my 350MB drive and have finally settled on a 1GB drive. I must point out that I tend to keep an array of programs active while working. I usually keep at least one full suite of software going, plus a massive Human Resource Information System, as well as a variety of games and utility software. ✿ For monitors, I found that I liked the 800 x 600 driver better than the 1024 x 768 drivers I used under Win 3.11. Even though this may let you use a less expensive monitor, I recommend staying with the highest-quality monitor in terms of pixel size and refresh rate that you can afford. The real issue, under Win 95, is not so much which monitor you have as it is which display card you use. My current favorite is the PCI-based Hercules Terminator Graphite Windows accelerator board. ✿ A few words need to be said about the impact of upgrading to Win 95 on other components in your system. Now might be the time to get that sound card you have always wanted. Plug-and-play will make installation a breeze and you will be able to enjoy how well Win 95 lets you work with multimedia products. In a similar fashion, CD-ROM drives have a renewed importance under Win 95. Win 95, itself, comes on a CD rather than the twenty-plus disks it would require. ✿ With built-in Internet support it may also be time to consider upgrading that older modem you have patiently been using. Interestingly, under Win 95 you can install more than one modem and with a couple of mouse clicks switch between them. ✿ In conclusion, as the saying goes, try it, you will like it. ■

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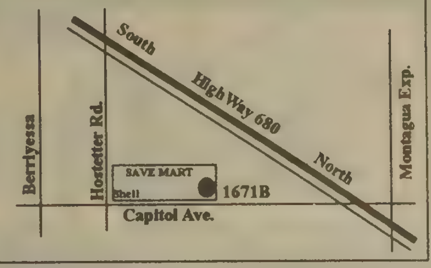

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Intel Endeavor P5-90/256K PCI	308	585
Intel Endeavor P5-75/256K PCI	308	485
Intel ZappaTriton P5-133/256K PCI	228	920
Intel ZappaTriton P5-120/256K PCI	228	780
Intel ZappaTriton P5-100/256K PCI	228	586
Intel ZappaTriton P5-90/256K PCI	228	486
Intel ZappaTriton P5-75/256K PCI	228	388
Intel Triton P5-133/256K PCI	180	890
Intel Triton P5-120/256K PCI	180	750
Intel Triton P5-100/256K PCI	180	556
Intel Triton P5-90/256K PCI	180	500
Intel Triton P5-75/256K PCI	180	395
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SIS PENTIUM-66/256K PCI	107	347
SIS PENTIUM-60/256K PCI	107	300
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486DX2-80/256K VLB AMD	89	160
486DX2-66/256K VLB AMD	89	150
486DX4-100/256K VLB INTEL	89	240
486DX2-66/256K VLB INTEL	89	190
486DX-33/256K VLB INTEL	89	120
IBM 486 SLC2-66/64K VLB	N/A	85

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Intel Endeavor P5- 90/256K PCI	1,558
Intel Endeavor P5- 75/256K PCI	1,458
Intel Zappa Triton P5- 133/256K PCI	1,903
Intel Zappa Triton P5- 120/256K PCI	1,763
Intel Zappa Triton P5-100/256K PCI	1,559
Intel Zappa Triton P5- 90/256K PCI	1,459
Intel Zappa Triton P5- 75/256K PCI	1,359
Intel Triton PENTIUM 133/256K PCI	1,873
Intel Triton PENTIUM 120/256K PCI	1,733
Intel Triton PENTIUM 100/256K PCI	1,529
Intel Triton PENTIUM 90/256K PCI	1,429
Intel Triton PENTIUM 75/256K PCI	1,329
SIS PENTIUM100/256K PCI	1,468
SIS PENTIUM 90/256K PCI	1,368
SIS PENTIUM 66/256K PCI	1,320
SIS PENTIUM 60/256K PCI	1,273
486DX4-100/256K VLB AMD	1,153
486DX2-80/256K VLB AMD	1,133
486DX2-66/256K VLB AMD	1,110
486DX4-100/256K VLB INTEL	1,203
486DX2-66/256K VLB INTEL	1,163
486DX-33/256 VLB INTEL	1,093
IBM 486 SLC2- 66/64 VLB	1,058

SYSTEM CONFIGURATION

* MotherBoard w/256 KCache
* 8 MB RAM installed
* 1.44 Floopy Drive
* **540 MB Fast IDE Hard Drive**
* EIDE VLB w/I/O (PCI for Pentium)
* SVGA VLB w/ 1MB
* SVGA PCI W/1MB (For Pentium)
* 14" SVGA .28 Non-in Color Monitor
* Mini Tower Case w/230W P.S.
* 101 Mitsumi keyboard
* Microsoft Compatible Mouse w/ Pad
* 2x CD-ROM + Sound Blaster 16
* 80 Watt Speakers
* Free CPU cooling Fan

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1 GBIDE	120	Mid Tower Case	25
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Microsoft Mouse	15	Logitech Mouse	10
15" Monitor	100	1MB RAM VIDEO	40

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with system purchase. Free installation

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W/ MB VLB 256 K CACHE
ONLY $169

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30 PINS MEMORY

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KEYBOARDS

Mitsumi keyboard	13
Keytronic	24
Focus 2001	35

VGA

SVGA VLB-PCI w/ 1MB/2MB	75/120
ATI	
WinBoost PCI 2MB (Mach 64) DRAM	162
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256 CACHE 1MB/2MB	99/141
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IDE 2FD/2HD w/2S/1P/1G	10
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EIDE PCI controller	26
NCR - SCSI PCI w/Wide SCSI	99
Adaptec SCSI 1522/1542	79/148
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PANASONIC CD-ROM Double Speed	85
ACER CD-ROM Double Speed IDE	90
PANASONIC Quad Speed IDE CD-ROM	150
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TEAC 4X SPEED CD-ROM	150
TOSHIBA 4X SPEED IDE w/Card	168
NEC SCSI-2 CD-ROM Quad Speed	230

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Zotriz 14400 Fax/Modem w/ Voice	60
US ROBOTICS Fax/Modem 14400	99
US ROBOTICS Fax/Modem 28800 v.34	230
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Desktop AT case w/230 Watt P.S	40
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DUAL SCAN 4 MB RAM 10.3" SCREEN / 128K CACHE	486DX2-66 486DX4-100	$1695 1738	$1770 1813	$1905 1948	$2095 2138
ACTIVE COLOR 4 MB RAM 9.5" SCREEN / 128K CACHE	486DX2-66 486DX4-100	$2095 2138	$2170 2213	$2305 2348	$2495 2538
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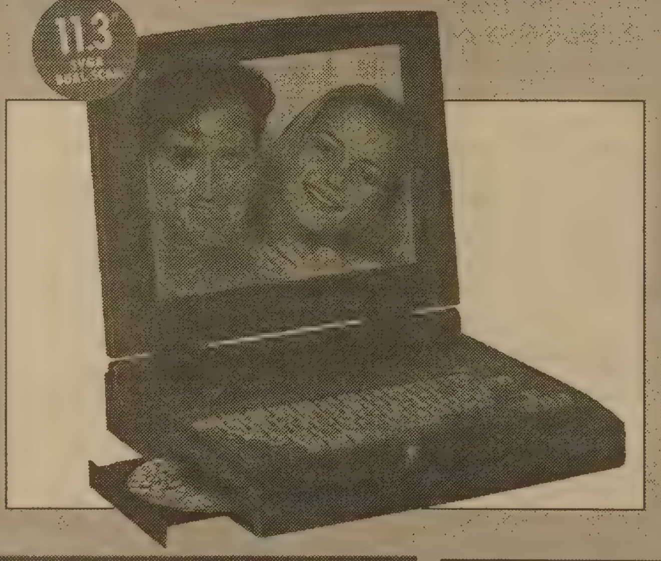

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- •32-Bit VLB w/1 MB Display
- •Built-In Pointer Device
- •16-Bit Sound Card/Speaker/Mike
- •Only 6.7 Lbs
- •Docking Station Option

DISPLAY	CPU TYPE	340 MB	510 MB	810 MB	1.2 GB
DUAL SCAN	486DX2-66 486DX4-100	$2295 2338	$2389 2432	$2520 2563	$2695 2718
ACTIVE COLOR	486DX2-66 486DX4-100	$2705 2748	$2799 2842	$2930 2973	$3105 3148

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- 101 Enhanced Keyboard
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486DX2-66 (INTEL)	$833
486SX2-50 (INTEL)	$775

- 256K Cache
- 4 MB RAM Expandable to 32 MB
- 1.44 MB Floppy Drives
- 420 MB IDE Hard Drive
- Vesa Local Bus 32 Bit IDE Cont 2H/2F I/O with 2 Serial, 1 Parallel, 1 Game
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- 14" SVGA NI .28dp Monitor
- 101 Enhanced Keyboard
- Mini Tower Case w/230W PS
- Serial Mouse

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- Intel Pentium 90/100MHz Processor
- Dual Pentium Processor Option
- EISA PCI Motherboard Expandable to 512K Cache
- 16 MB RAM Expandable to 128MB
- 1.44 MB Floppy Drive
- 1.0 GB SCSI Hard Drive
- Adaptec 2940 PCI SCSI Controller
- I/O Card w/2S/1P
- ATI Ultra Turbo 64 Bit PCI w/2 MB VRAM Video Card
- 15" CTX SVGA Non-Interlaced
- Monitor (1280x1024) .28dp
- 101 Enhanced Keyboard
- Full Tower Case w/ 250W Power Supply
- 3 Button Serial Mouse

Options:

2nd Pentium 90 MHz CPU:	+$608
1 GB SCSI Tape Back-Up:	+$610
ATI Ultra Turbo 64 Bit PCI w/4MB:	+$199

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PENTIUM 90	$1305
PENTIUM 100	$1425
PENTIUM 120	$1665
PENTIUM 133	$1805

- Intel Pentium Processor
- 256K Cache
- 8 MB RAM Expandable to128 MB
- 16KB Internal Pentium Cache
- 1.44 MB Floppy Drives
- 420 MB IDE Hard Drive
- PCI IDE Controller w/UART 16550 Card
- I/O with 2 Serial, 1 Parallel, 1 Game
- PCI Orchid Kelvin w/1 MB Video Card
- 14" SVGA .28dp NI Color Monitor
- 101 Enhanced Keyboard
- Mid Tower Case w/250 W PS

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Impression 14" .28 NI	$255
Impression 7 17"	555
CTX 15" .28 NI	345
ADI 15" 4GP	375
ADI 17" 5EP .28	625
ViewSonic 15 NI 1280x1024	425
ViewSonic 15ES 15" 1024x768	375
ViewSonic 17" 1600x1280	810
ViewSonic 17G 1280x1024	690
Sony 15 5F	599
Sony 17 5E1600x1200	902
Mag DX15/17	365/650
Mag MX15/17	465/795

DISPLAY CARDS

ATI Ultra Win Turbo 64 PCI/4 MB	$450
ATI Ultra Win Turbo PCI/VLB 2 MB	265
Orchid Kelvin 64 VLB/PCI 1 MB	125
Orchid Kelvin 64 VLB/PCI 2 MB	165
Diamond Stealth 64 PCI/VLB 4 MB VRAM	390
Diamond Stealth 64 PCI/VLB 2 MB VRAM	269
Diamond Stealth PCI/ 1 MB DRAM	125
Diamond Stealth PCI/2 MB DRAM	178
Cirrus Logic 5428 VLB/1 MB 2 MB	75/112
Cirrus Logic 5434 PCI/1 MB	89

Call For More
FOR CPU'S PLEASE CALL

HARD DRIVES

420 MB IDE	$150
540 MB IDE/SCSI	170/210
730 MB IDE	210
830 MB IDE	220
1.2 GB IDE	300
2.1 GB SCSI	800

MODEMS/TAPE BACK-UPS

14.4/14.4 Int/Ext	$67/105
28.8/28.8 Int/Ext	135/165
350 MB Tape Back-up Int/Ext	150/325

MOTHERBOARDS

486SX/DX-25/33/50/66	$85
486SX/DX-25/33/50/66 PCI	148
Asus Pentium MB For 90/100 256K	250

FLOPPY DRIVES

1.44 MB (3.5") FDD	$29
1.2 MB (5.25") FDD	37

MOUSE

3 Button Serial	$8
Microsoft Serial	24
Logitech First Mouse	28

CONTROLLER CARDS

32 Bit 2940 SCSI Card	$195
32 Bit 2940W SCSI Card	239

MULTIMEDIA CD-ROMS

Sony 55E Double Speed	$105
Toshiba 4X SCSI	305
NEC 3X IDE	195
Mitsumi 4X IDE	180
Teac 4X IDE	190
Plextor 4X SCSI	395

SOUND CARDS

Creative Lab 16	$78
Creative Labs 16 w/ASP	115
Creative Labs 16 SCSI	108
Creative Labs 16 SCSI w/ASP	155
Creative Labs 32 AWE	257
Creative Labs Edutainment	393

MULTIMEDIA UPGRADE KITS

Diamond 2X Kit-1000	$309
Diamond 4X Kit-5000	435

CALL FOR OTHER ITEMS NOT LISTED

MULTIMEDIA PACKAGES

1) SONY Dual Speed CD-ROM Sound Blaster 16 Bit With Items Below	$245
2) TEAC 4X Speed CD-ROM Sound Blaster 16 Bit With Items Below	$340
3) TOSHIBA Quad Speed Sound Blaster 16 Bit SCSI With Items Below	$460

ABOVE 3 PACKAGES INCLUDE:

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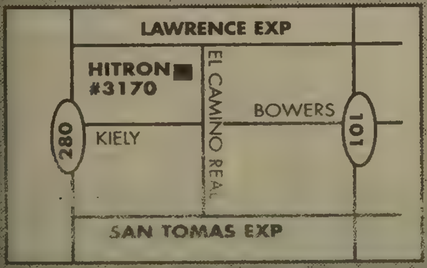

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☑ Motherboard w/ 256K Cache
☑ CPU Cooling kit w/ Heatsink & Fan
☑ 4Mb Ram installed (72-pin)
☑ IDE Controller VLB 2HD & 2FD w/ 2s, 1p, 1g
☑ Floppy Drive 1.44Mb
☑ Hard Disk 540Mb IDE 12ms
☑ Spider + Window Accelerator VLB w/1Mb
☑ 14" Acer 34T SVGA Color Monitor 1024x768 .28 NI
☑ 101 Keys Enhanced Keyboard
☑ Mini Tower Case w/ 230 Watts Power Supply
☑ Logitech Serial Mouse

BEST VALUE

AMD 486DX2-66	**$858**
AMD 486DX4-100	**$908**
AMD 486DX4-120	**$998**

PACKAGE 3 SYSTEM

486 PCI Multi-Media

☑ Asus Motherboard w/ 256Kb Cache
☑ CPU Cooling kit w/ Heatsink & Fan
☑ 8Mb RAM Installed (72-pin)
☑ EIDE Controller PCI 4HD & 2FD w/ 2s (16550), 1p, 1g
☑ Floppy Drive 1.44Mb
☑ Hard Disk 850Mb EIDE 12ms (PIO: 4)
☑ Window Accelerator PCI w/ 1Mb
☑ 14" Acer34T SVGA Color Monitor (1024x768) .28 NI
☑ 101 Keys Enhanced Keyboard
☑ Mini Tower Case w/ 230 Watt Power Supply
☑ Logitec Serial Mouse
☑ Double Speed 2X CD-ROM Drive
☑ Sound Blaster 16-bit Sound Card
☑ Pair of Speakers

Motherboard made by ASUS

AMD 486DX2-66	**$1,158**
AMD 486DX4-100	**$1,198**
AMD 486DX4-120	**$1,288**

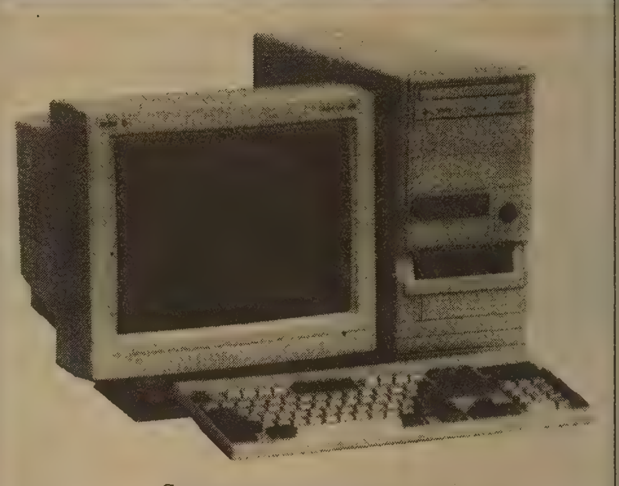
PACKAGE 3 SYSTEM

PENTIUM SUPER SYSTEM

☑ Intel Zappa Motherboard w/ 256Kb Cache
☑ CPU Cooling kit w/ Heatsink & Fan
☑ 8Mb RAM Installed (72-pin)
☑ EIDE Controller *Built-In* 2HD & 2FD w/ 2s (16550), 1P (EPP)
☑ Floppy Drive 1.44Mb
☑ Hard Disk 850Mb EIDE 12ms (PIO: 4)
☑ Diamond Stealth 64 Video DRAM PCI w/ 1Mb
☑ 15" Acer 56L SVGA Color Monitor (1280 x 1024) .28 NI
☑ Keytronic 101 Keys Enhanced Keyboard
☑ Super Mini Tower Case w/ 230 Watt Power Supply
☑ Microsoft Ergonomic Serial Mouse

Intel P5-75MHz	$1,458
Intel P5-90MHz	$1,568
Intel P5-100MHz	$1,678
Intel P5-120MHz	$1,868
Intel P5-133MHz	$2,028

PENTIUM MULTIMEDIA SYSTEM



System appearence may vary

- ✱ Intel Endeavor P5 w/ 256Kb (Pipelined Burst)
- ✱ CPU Cooling Kit w/ Heatsink & Fan
- ✱ 8Mb RAM Installed (72-pin)
- ✱ EIDE Built-in 4HD & 2FD w/ 2s (16550), 1p, 1g
- ✱ Floppy Drive 1.44MB
- ✱ Hard Disk 850MB EIDE 12ms (PIO: 4)
- ✱ Diamond Stealth 64 Video Dram w/ 1Mb
- ✱ 15" Acer 56L SVGA Monitor (1280X1024) .28 NI
- ✱ Keytronic 101 Keys Enhanced Keyboard
- ✱ Super Mini Tower Case w/ 230 Watts P.S
- ✱ Microsoft Ergonomic Serial Mouse
- ✱ Quad Speed 4X CD-ROM Drive
- ✱ Sound Blaster 16-bit Sound Card
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15G 486 VLB w/ 256Kb ZIF (3V & 5V)	$118
CI Triton P5 Series w/ 256Kb (PipeLined Burst)	$268

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SUPERO

ntegrated 2 serial (16550), 1 parallel (EPP)
2 floppy & enhanced IDE ports & 256kb Cache
Pipelined Burst (Triton chipset)

55CMS P5 Series P5-75 ---> Future Pentium	$288

intel.

Integrated 2 serial (16550), 1 parallel (EPP)
2 floppy & enhanced IDE ports & 256kb Cache
(Triton chipset)

appa P5-75 ---> 133	$228
ndeavor P5-75 ---> 133	$308
ndeavor P5-75 ---> 133 PipeLined Burst	$378

ASUS

Integrated 2 serial (16550), 1 parallel (EPP)
2 floppy & enhanced IDE & 256Kb Cache

86 VLB & PCI (SIS PVI-486SP3)	$148
5-Series (Triton PCI-P54TP4-XE)	$228
5w/ Pilelined Burst (Triton PCI-P54TP4-XE)	$298
5-Series w/ 256Kb (Dual P5 P54NP4D)	$368

CPU'S

Advanced Micro Devices

MD 486DX2-66MHz (3V)	$58
MD 486DX2-80MHz (3V)	$68
MD 486DX4-100MHz (3V)	$98
MD 486DX4-120MHz (3V)	$ Call

intel.

ntel 486SX-25MHz	$48
ntel 486DX-33MHz	$78
ntel 486DX2-66MHz	$118
ntel 486DX4-100MHz	$168
ntel 486DX4-100MHz (Over Drive)	$188

pentium PROCESSOR

ntel P5-75MHz (3V)	$198
ntel P5-90MHz (3V)	$298
ntel P5-100Mhz (3V)	$398
ntel P5-120Mhz (3V)	$598
ntel P5-133Mhz (3V)	$758

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1 x 9 - 70ns (3 chips)	$35
4 x 9 - 70ns (3 chips)	$118
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1 x 32 - 60ns (72-pin) 4Mb	$128
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1 x 36 - 70ns (72-pin) 4Mb	$133
2 x 32 - 70ns (72-pin) 8Mb	$258
2 x 32 - 60ns (72-pin) 8Mb	$268
2 x 36 - 70ns (72-pin) 8Mb (Parity Simulated)	$273
2 x 36 - 70ns (72-pin) 8Mb	$298
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4 x 32 - 60ns (72-pin) 16Mb	$498
4 x 36 - 70ns (72-pin) 16Mb (Parity Simulated)	$483
4 x 36 - 60ns (72-pin) 16Mb	$568

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Super VGA Card w/ 512Kb	$36
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Windows Accelerator VLB w/ 1Mb (Trident-9400)	$68
Windows Accelerator PCI w/ 1Mb (Trident-9440)	$68
Windows Accelerator PCI w/ 1Mb (S3-864)	$78
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Stealth 32 VLB w/ 2Mb (Tseng W32P)	$123
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Stealth 64 VLB w/ 1Mb (S3-764)	$108
Stealth 64 Video Dram VLB or PCI w/ 1Mb (S3-868)	$118
Stealth 64 Video Dram VLB or PCI w/ 2Mb (S3-868)	$168
Stealth 64 Video VRAM PCI w/ 2Mb (S3-968)	$248
Stealth 64 Video VRAM PCI w/ 4Mb (S3-968)	$388
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MultiMedia Kit (6000)	$318
Other	$Call

ORCHID

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Kevin EZ VLB w/ 1Mb	$88
Kelvin 64 VLB w/ 1Mb	$118
Kelvin 64 VLB w/ 2Mb	$168
Other	$ Call

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Tarantula 64 MK II PCI w/ 2Mb (S3-968)	$228
Other	$Call

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Graphic Win Turbo PCI w/ 4Mb Vram (OEM)	$398
Other	$Call

Hercules

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Dynamite Graphic Power VLB w/ 2Mb VRAM	$188

matrox

MGA Millenium PCI 2Mb	$298
MGA Millenium PCI 4Mb	$458

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9FX Motion 330 PCI w/ 1Mb (Retail Box)	$138
9FX Motion 330 PCI w/ 2Mb (Retail Box)	$178
9FX Motion 531 PCI w/ 1Mb (Retail Box)	$188
9FX Motion 531 PCI w/ 2Mb (Retail Box)	$228
9FX Motion 771 PCI w/ 2Mb (Retail Box)	$288
9FX Motion 771 PCI w/ 4Mb (Retail Box)	$398
Other	$ Call

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15" 56L (1280x1024) .28 NI	$358
17" 76I (1280 x 1024) .28 NI at 60Hz Refresh	$628

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17" ViewSonic 17GA	$858
20" ViewSonic 20G	$1,398

ADI

15" ADI 4GP (1280 x 1024) .28 NI (Low Radiation)	$ Call
17" ADI 5EP (1280 x 1024) .28 NI (Low Radiation)	$ Call

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17" GDM - 17SF	$848
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NEC

15" NEC 15XV	$458
17" NEC 17XV	$758
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INTERFACE CARDS

Parallel Card	$9.95
AT I/O 2s (16,450 UARTS), 1p, 1g	$12
AT I/O 2s (16,550 UARTS), 1p, 1g	$25
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IDE VLB 2HD, 2FD, 2s, 1p, 1g	$16
Tyan 1346 IDE VLB 4HD, 2FD, 2s, 1p, 1g (16,550)	$23
Tyan 1342 IDE VLB 4HD, 4FD, 2s, 1p, 1g (16,550)	$38
Tyan 1366 IDE PCI 2HD, 2FD, 2s, 1p, 1g (16,550)	$38

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2130 IDE PCI only	$9 95
2278D IDE VLB 4HD & 2FD 2s, 1p, 1g	$19.95
2278E IDE VLB 4HD & 2FD 2s, 1p, 1g (16,550)	$28
2278EB IDE VLB 4HD & 2FD 2s, 1p, 1g (w/ BIOS)	$38

adaptec

Total Connect 1515 w/ kit (Retail Box)	$88
Total Connect 2825 w/ kit (Retail Box)	$128
2940 PCI SCSI-2 w/ kit (OEM)	$188
2940 PCI SCSI-2 w/ kit (Retail Box)	$248
2940W PCI Fast SCSI w/ kit (Retail Box)	$278
2842 VL Fast SCSI-II VESA w/ Kit (Retail Box)	$228
3940 PCI Multichannel SCSI on Single PCI card	$398
3940W PCI Multichannel SCSI on Single PCI card	$478
Other	$ Call

BUSLOGIC

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1.6 Gb EIDE 10ms (WD-31600) PIO: 4	$448
Other	$ Call

Maxtor

850MB EIDE 12ms (7850A) PIO: 3	$198
1.2GB EIDE 12ms (71260A) PIO: 3	$268
1.6GB EIDE 12ms (71626A) PIO: 4	$428
Other	$ Call

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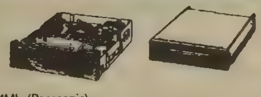

1.44Mb (Panasonic)	$26
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1.44Mb (TEAC) Black	$33
1.2Mb (Panasonic)	$30
1.2Mb (TEAC)	$38
1.2Mb (TEAC) Black	$43
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Other	$ Call

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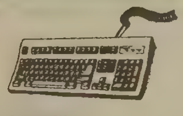
Acer 743E 4X (EIDE)	$148
Toshiba 5302B 4X (EIDE)	$168
Teac 55A 4X (Sound Blaster Interface)	$168
Teac 55A + FD 1.44 Combo (Model CF506A))	$198
Sanyo 4X SCSI-2	$188
NEC CDR-511 4X SCSI-2	$228
Toshiba 3601B 4X SCSI-2	$288
Other	$Call

KEYBOARDS



Mitsumi 101 Enhanced Keys	$15
Keytronic 101 Enhanced Keys	$23
NMB 101 Enhanced Keys Click	$38
Focus 2001 101 Enhanced Keys	$28
Focus P9000 Click w/ Calculator	$48
Microsoft Natural	$78

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Modem & Fax 28.8 (internal)	$78
Other	$ Call

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Sporter SI Modem & Fax 14.4 (Internal)	$62
Sporter SI Modem & Fax 14.4 (External)	$85
Sporter Modem & Fax 28.8 V.34 (Internal)	$188
Sporter Modem & Fax 28.8 V.34 (External)	$208
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Desk Top Case + 230 watts P.S	$43
Super Mini Tower + 230 watts P.S	$48
Mid tower Case + 230 watts P.S	$58
Full Tower Case + 250 watts P.S	$78
Super File Tower Case + 300 watts P.S (2 Fans)	$158
Acer Super Full Tower Case w/ 250 watts P.S.	$125
Full Tower Black Color	$118

MICE

3-Buttons Serial	$6.95

LOGITECH

2 Buttons Serial (OEM)	$9.95
Dexxa Serial (OEM)	$14.95
MouseMan Serial OEM	$19.95
MouseMan Serial Retail	$24.95
MouseMan Bus (OEM)	$45.95
Portable Serial (OEM)	$34.95
First Serial (Retail)	$25.95
First TrackBall Serial (Retail)	$44.95
TrackMan Combo Serial (Retail)	$74.95
TrackMan Voyager Serial (Retail)	$64.95
CyberMan 3D Controller (Retail)	$55.95
WingMan Joystick	$29.95
WingMan Joystick Extreme	$49.95
Other	$ Call

Microsoft

Microsoft Serial Mouse (Ergonomic) w/ system	$24 95

ACCESSORIES

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Tape Backup Solutions

Colorado 350Mb Tape Back-up (Retail Box)	$135
Conner 420Mb Tape Back-up (Retail Box)	$128
CPU Cooling Kit w/ heatsink & fan (All Pentium)	$5.98
CPU Cooling kit heatsink & fan (Good Quality)	$6.98
CPU Cooling Kit heatsink & fan (Good Quality)	$13.98
Speakers 4W	$6
Speakers 25W	$25
Speakers 80W	$38
Speaker EAB401P Panasonic	$48
Speaker EAB710P Panasonic	$88
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Windows 3.11 w/ system only	$55
Windows 3.11 for workgroup w/ system only	$65
Windows 95 w/ system only (CD-ROM)	$108

YAMAHA

Yamaha 3W (YST-M5)	$28
Yamaha 10W (YST-M10)	$58
Yamaha 25W (YST-MSW10)	$148
Yamaha 25W (YST-SS510)	$178
Yamaha 25W (YST-SS1010)	$208

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Sound Blaster 16 Basic (EIDE interface) OEM	$68
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Sound Blaster AWE 32 (EIDE int.) w/ 4 Games	$168
Sound Blaster AWE 32 (Retail)	$268
Modem Blaster 14.4 w/ Games	$58
Phone Blaster w/ speaker (Retail Package)	$188
Sound Blaster Value CD 4X (Retail Package)	$278
Multimedia Home Office 4X (Retail Package)	$378
Other	$ Call

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Product Spotlight

Updates

Ashlar is shipping **Vellum 3D v2.7** for Macintosh and Power Macintosh, the latest version of its design and drafting software. The price is $1495. Ashlar Inc., 1290 Oakmead Pkwy., Suite 218, Sunnyvale, CA 94086. (408)746-1800.

Autodesk announced **WHIP**, a new high-performance graphics driver for AutoCAD Release 13 for Windows. It is available free to registered AutoCAD R13 users. Autodesk, Inc., 111 McInnis Pkwy., San Rafael, CA 94903. (415)507-6440.

Blue Sky Software is shipping **WinHelp Office 1.5**. Among other upgrades, the new version includes the Moving to WinHelp '95 porting tool to automatically move Windows 3.x Help systems to Windows 95. Available for $599. Blue Sky Software Corp., 7486 La Jolla Blvd., Suite 3, La Jolla, CA 92037. (619)459-6365.

Compaq has extended its **Compaq SmartStation value promotion** through December 21, 1995, or while supplies last. With the purchase of the LTE Elite 4/50CX Model 340 or the LTE Elite 4/75CX Models 340 or 510 customers will receive the SmartStation expansion base free. Compaq Computer Corp., P.O. Box 692000, Houston, TX 77269-2000. 1-800-345-1518 or *http://www.compaq.com* .

DataViz has released **Conversions Plus v3.0** for Windows. The new version includes many new translators, enhanced graphic capabilities, and a new file preview feature. It is available for $149, or $39.95 to upgrade from earlier versions. DataViz, 55 Corporate Dr., Trumbull, CT 06611. 1-800-733-0030.

Interactive Image Technologies released **Electronics Workbench v4**, the latest version of its mixed-mode simulation software tool designed to help students design and troubleshoot circuits. The regular price is $299; upgrade and student price is $79. (Mac version available in September.) Interactive Image Technologies, 111 Peter St., Suite 801, Toronto, Ontario, Canada M5V-2H1. 1-800-263-5552 or *ewb@interactiv.com* .

Knowledge Revolution is now shipping **Working Model v3.0**, the latest version of its motion simulation program for design engineering and analysis. Knowledge Revolution, 66 Bovet Rd., Suite 200, San Mateo, CA 94402. 1-800-766-6615.

Spider Island Software is upgrading TeleFinder BBS with **a new version of Mail Server** that supports Internet mail using SMTP. Mail Server 2.0 is available free to current users of TeleFinder 3.5. Spider Island Software, One Venture, Suite 230, Irvine, CA 92718. (714)453-8095, BBS (714)453-8190, telnet *spiderisland.com:1474* .

State of the Art released **M•A•S 90 Level 2.0**. The upgrade includes the new Material Requirements Planning module as well as enhancements and upgrades to most other modules. The MRP module is $1999, others range from $799 to $1599. State of the Art, Inc., 56 Technology, Irvine, CA 92718. (714)753-1222.

Symantec is offering **a scan-only version of Norton AntiVirus for Windows 3.1 free** on CompuServe through September 28. It is located in the NCSA Virus Awareness Day forum; type GO VIRUSDAY.

Trend Micro Devices is offering **free virus detection software** via the World Wide Web. This will detect the new virus that can infect Microsoft Word 6 files under Windows 3.1, Windows 95, and Macintosh operating systems. The virus scanner is available at *http://www.teleport.com/~trend/main.htm* .

Product Announcements

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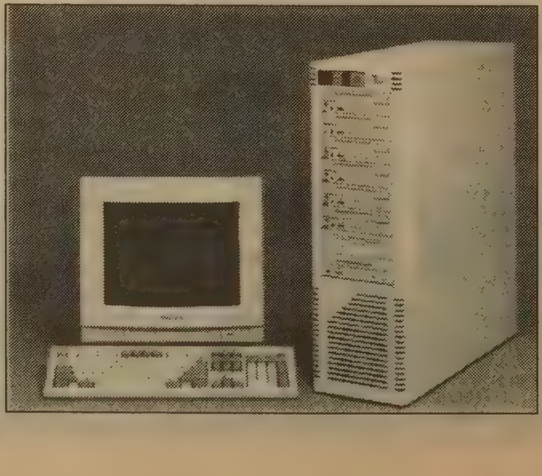

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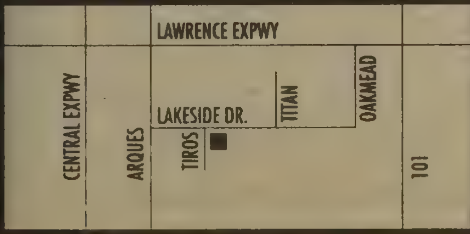

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MultiNET-CD Server

The MultiNET-CD Server is a plug-and-play quad-speed CD-ROM server for Novell NetWare (v3.11 or higher) networks, allowing users to share gigabytes of data and applications. All that is required is to attach the network's Ethernet cable to the server; then any user on the LAN can have access to up to seven CD-ROMs. There is no need for a dedicated file server, no SCSI cards to configure, and no complicated installation procedures. The included software gives complete drag-and-drop control for mounting CDs as NetWare volumes, selecting security options, and viewing drive information on a particular CD. (starts at $999) PARS International Computer, 22445 Foothill Blvd., Hayward, CA 94541. (510)733-0103.

Vectros 400 CD-ROM

The Vectros 400 is a new quad-speed CD-ROM drive with IDE/ATAPI interface and digital servo control system. An internal unit, the drive is designed for easy installation and is available separately or as a component of the Vectros multimedia upgrade kit. A built-in headphone jack enables users to listen to audio CDs without requiring a sound card. The drive also includes a power-saving feature that will power down the CD-ROM when it is not in active use. ($209) Elitegroup, 45225 Northport Ct., Fremont, CA 94538. (510)226-7333.

CD-ROM Titles

Apollo Interactive, The Complete Insider's Guide

This new CD-ROM for both Windows and Macintosh systems allows users to experience the historic Apollo space voyages at their desktop. Apollo Interactive combines actual video and detailed illustrations into an easy-to-use interactive package that enables users to learn about all the Apollo missions. The program includes a ride in the Lunar Rover of Apollo 16; actual crisis video taken from Apollo 13; detailed illustrations of how the Apollo rockets work; and animations, illustrations, and video from nearly all the missions. ($15) The WizardWorks Group, 3850 Annapolis Ln., Suite 100, Minneapolis, MN 55447-5443. (612)559-5140.

The Underground CD-ROM Handbook For The SAT

This new educational CD-ROM is a multimedia version of Workman Publishing's book *Up Your Score* that was authored by four students who aced the SAT and went on to an Ivy League university. It presents tips, techniques, strategies, and teenage attitude needed to psyche out the SAT. The program allows students to continually appraise their skills in subject areas and to take an SAT mini-test that adjusts scores, giving them an accurate measure of their performance. Quirky, animated study breaks pop up between lessons and cover subjects such as how to smuggle food into the test, and how to concentrate when the person next to you is tapping their foot. ($49.95, available on a hybrid CD-ROM for Macintosh and Windows) Swifte International, Inc., Stone Mill Office Park, 722 Yorklyn Rd., Hockessin, DE 19707-8701. (302)234-1740.

Megapak Volume 3 For PCs

Megapak Vol. 3 for PCs is a package of ten full-version CD-ROMs from top publishers that offer a wide range of titles. The CDs included are *Megarace* by Mindscape Inc., *TFX—Tactical Fighter Experiment* by Ocean, *The Vortex—Quantum Gate II* by HyperBole Studios (three-CD set), *Novastorm* by Psygnosis, *The Journeyman Project Turbo* by Sanctuary Woods, *Reunion* by Merit Studios, *Dragon's Lair* by Readysoft Inc., *Cyclones* by SSI, *Lemmings Chronicles* by Psygnosis, and *Jammit* by GTE Interactive. Megapak Vol. 3 is available in Spanish and German versions (in addition to English), and product descriptions and pictures are available through the World Wide Web at *http://www.megamed.com* ($39.95) Megamedia Corp., 1701-E Fortune Dr., San Jose, CA 95131. (408)428-9920.

Under Pressure

Under Pressure is a new Windows 95 desktop puzzle game that tests the player's ability to think strategically while racing against the clock to get to the next level. It is set up in modules so players can access a level through a password and play for as little as a few minutes—or while they are on hold. Players maneuver through a labyrinthine maze of walls and other obstacles while trying to move different types of colored chips along the tiles into their respective energy tanks at various locations on the board. They receive points each time they get a chip into a matching tank, and advance to the next level when they score the required number of points before the clock runs out. There are a total of sixty levels, and the game is accompanied by mesmerizing music and sound effects which can easily be turned on and off. ($29.95) StarHill Productions, 139 Townsend St., San Francisco, CA 94107. (415)442-5000.

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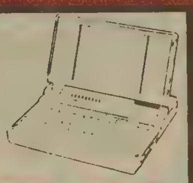

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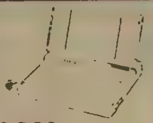

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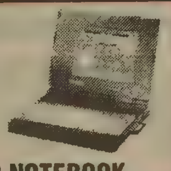

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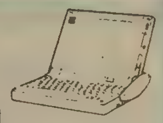

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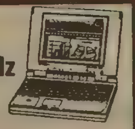

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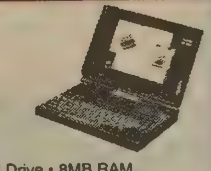

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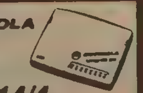

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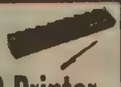

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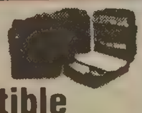

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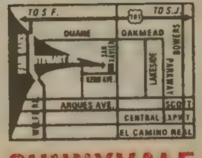
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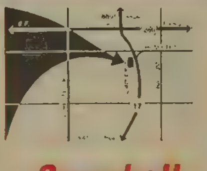

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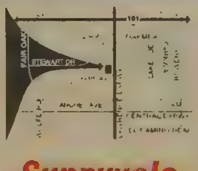

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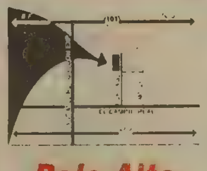

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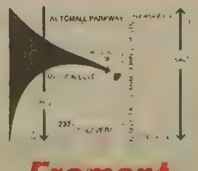

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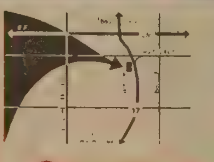

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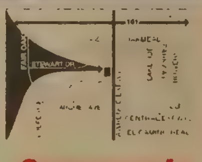

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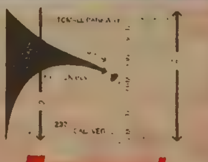

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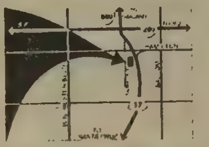

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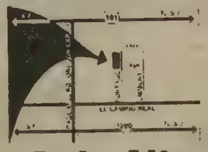

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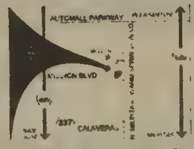

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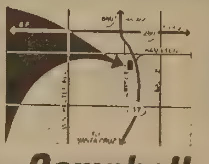

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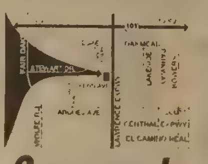

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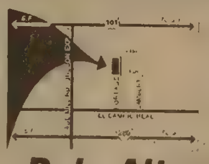

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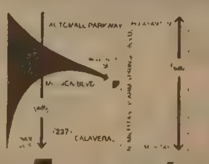

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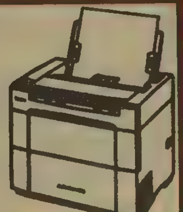

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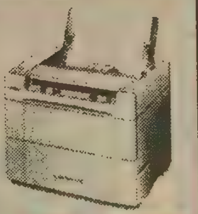

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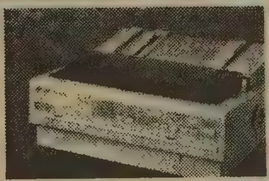

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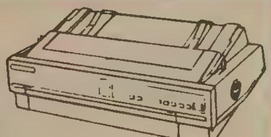

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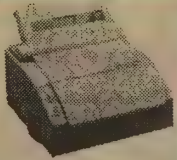

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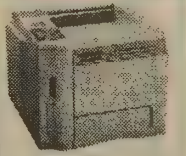

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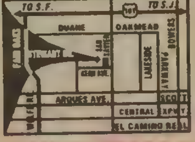
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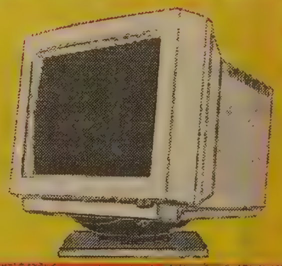

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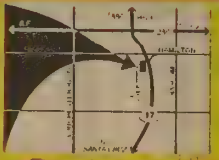
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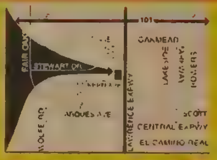
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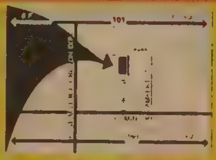

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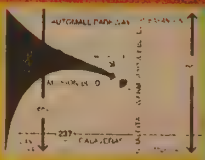
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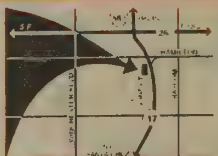

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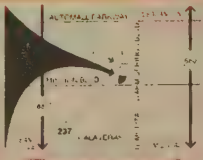

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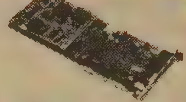

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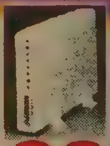

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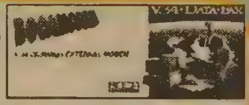

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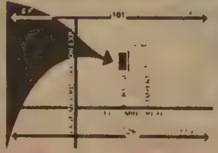

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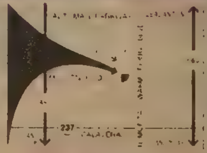

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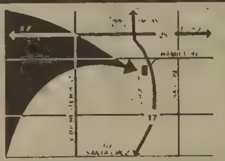

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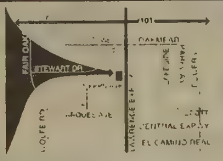

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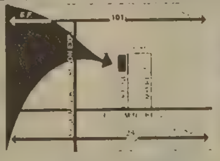

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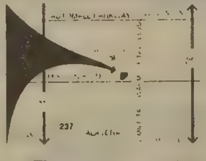

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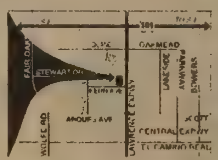

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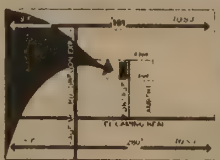

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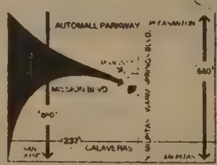

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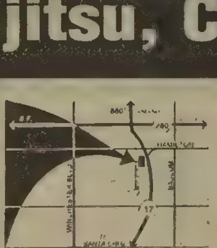
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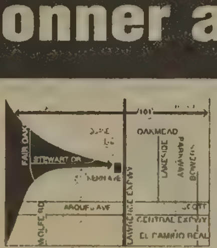
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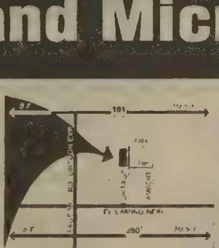
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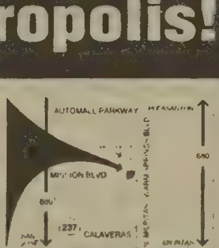
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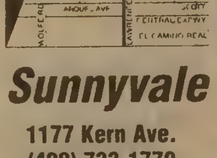
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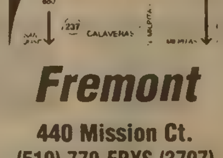
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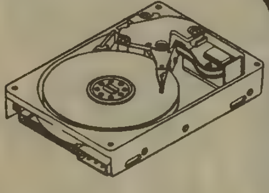

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- 64K Buffer
- 4500 RPM
- 3.5" X 1"

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- 128K Buffer
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- 12ms Seek Time
- 2 Year Warranty

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- 3.5" Enhanced IDE
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- 64K Data Buffer
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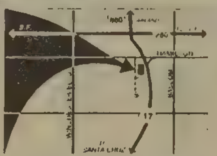

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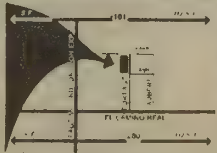

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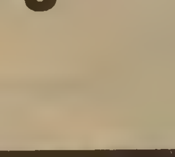

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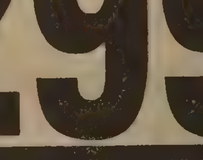

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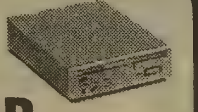

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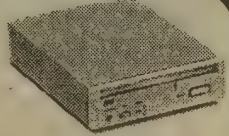

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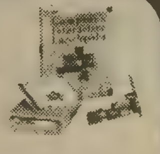

- Quad-Speed CD-ROM Drive w/600kb/s Transfer and 230ms Access
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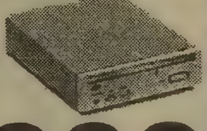

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- SCSI-2
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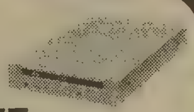

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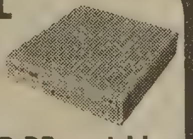

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- Advanced phase change rewritable(PCR) technology allows for a nearly limitless amount of rewriting on the same cartridge
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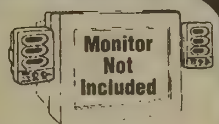

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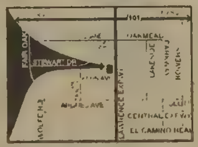

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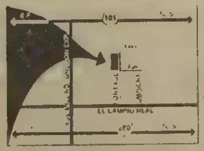

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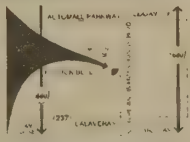

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#1282460

CS-500 HD 50MB HIGH DENSITY DATA CASSETTE
$11.99
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CS-600 XD 155MB STREAMER CASSETTE
Compatible with Teac CT600N and Maynard 90506
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#1527218

HS-4/60 4MM 1.3 GIGABYTE HELICAL SCAN DATA CARTRIDGE
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DC 6150 1/4" 150MB DATA CARTRIDGE 620FT.
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Compatible with Teac CT600F
$26.99
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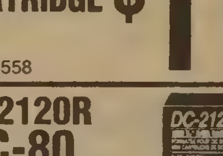

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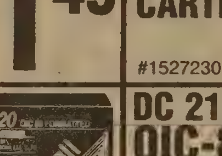

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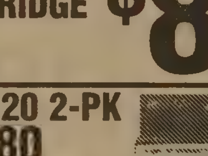

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TVator Pro

PC/MAC VGA to NTSC Scan Converter

- See your PC/Mac picture on TV
- Simultaneous display on monitor or TV
- Supports Video, S-Video, RGB
- The Ultimate Scan Converter under $200

$149⁹⁵

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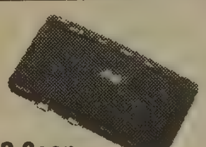


Professional VGA to NTSC Scan Converter

- See your computer picture on monitor or TV.
- Zoom, Freeze, Pan, Overscan-on Remote.
- Plug 'n Play-no drivers needed.
- Windows, MAC, OS/2, and DOS.
- Supports 800x600 resolution.

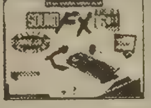
$299⁹⁹

ANTEC

#2053440

REVEAL

SoundFX Pro 16-Bit Stereo Sound Card

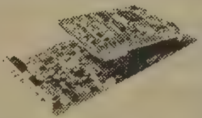


- Includes interface for Panasonic, Sony, and Mitsumi drives
- MIDI Interface, game port
- Comes bundled with microphone, headphone and software.

$69⁹⁹

#1922365

Roland SOUND CANVAS DAUGHTERBOARDS SCD-15

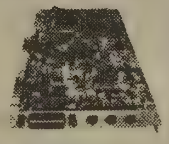


- Easy snap-on General MIDI and GS upgrade boards
- Superior Roland Articulated Wave Technology
- Full General MIDI compatibility
- Built-in reverb and chorus
- 128 (SCD-10) and 354 (SCD-15) sounds on board
- Includes Free music software package ($100 value)

$265

#2076829

Roland RAP-10 AUDIO PRODUCTION CARD



- 16-bit 44.1kHz stereo sampling
- 28 voice, 16 channel Sound Canvas General MIDI synthesizer featuring Articulated Wave technology
- Studio-quality digital reverb and chorus, for both digital audio and MIDI parts
- Roland Audio Tools™ software, and Windows 3.1drivers

$279

#2076807

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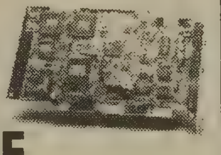
CREATIVE LABS, INC.

SOUND BLASTER 16 VALUE IDE

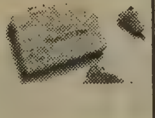


- 8 and 16-bit stereo sampling/playback from 4-44.1 KHz
- Real-time, 16-bit software compression and decompression of sound files
- CD-ROM interface for Creative Labs CD-ROM drives
- Monologue for Windows and software utilities
- Windows 3.1, OS/2 and MPC2 compatible
- Wave Table Upgradeable

$94

#2042273

Pro PC/TV Plus



Portable PC-to-TV Encoder

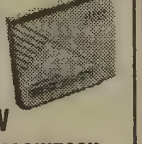
- External VGA-to-NTSC converter (VGA to TV/videotape) for your laptop or desktop PC
- Drives both VGA and TV simultaneously
- S-Video (SVHS) output for high quality video recordings/displays
- Anti-flicker circuit for sharp Windows display

$169⁹⁹

AITech

#1821433

MultiPro CTV



External VGA-to-video/TV encoder for your PC or MACINTOSH

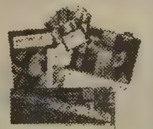
- Record, edit or playback audio and video from your PC or Macintosh video output.
- Easy to use and easy to install-just plug and paly
- Supports up to 16.7 million (24-bit) colors with standard VGA (640x480) resolution.
- Dual display support cability (VGA monitor and TV/VCR simultaneously).

$259⁹⁹

AITech

#1906835

MIRO DCI



Desktop Video Editing System for Windows

The video solution for real-time capturing, editing and playback of video. Includes Adobe Premiere for Windows.

- Capture digital VHS video to your hard disk
- Add transitions, titles and special effects
- Print to tape in full-size NTSC or PAL with S-VHS quality
- Now with crystal flying fonts pro

$698

PN-012014
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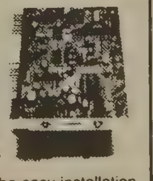
REVEAL

PC RADIO CARD



Tune to your favorite FM station while you work! Turns your PC into a full featured FM radio. Enjoy your favorite radio programs or news broadcasts right out of your PC, with this pre-amplified stereo FM card. The easy installation takes minutes. It has advanced features such as fine tune, auto scan, and a programmable 10 station memory.

$39⁹⁹

#1985816

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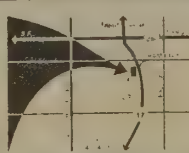

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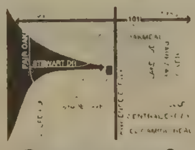

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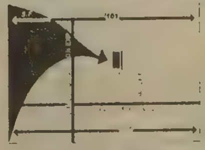

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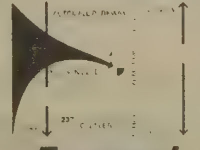

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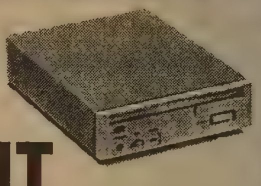
SOUND BLASTER MULTIMEDIA VALUE CD 4X

- Sound Blaster 16 upgradeable IDE stereo audio card
- Quad-speed IDE CD-ROM drive
- Stereo-Speakers
- 11 bundled software titles: Groiler Multimedia Encyclopedia, Hong Kong Mahjong Pro, Populous II, Seven Cities of Gold, Shadowcaster, Space Hulk, The Savage Empire, Ultima VII, Ultima Underworld, Yeager's Air Combat, Wing Commander Academy

$299

#2070443

Sun Moon Star



QUAD-SPEED MULTIMEDIA KIT

Hitachi Internal Quad-speed CD-ROM Drive

- 220ms access time
- 600KB per second data transfer rate
- 128KB cache memory
- Motorized Tray
- Speakers
- ESS 16-Bit Sound Card with IDE CD-ROM Interface
- 10 CD Titles including Groliers Multimedia Encyclopedia 1995

$258

#2078980

Multimedia Kit 7000

Diamond Power Kit, the Diamond 7000, includes 22 popular software titles, plus 150 shareware titles, a quad speed CD-ROM drive, a 16-bit 1mb hardware wave table, stereo quality sound card, 30 watt speakers, a joystick and a microphone. The software titles include Myst, Rebel Assault, Decent-Destination Saturn, Compton's 1995 and 18 more. Simple installation by including an instructional video, automatic installation software, and a photo -illustrated step-by-step manual.

$398

DIAMOND
MULTIMEDIA

#2057754

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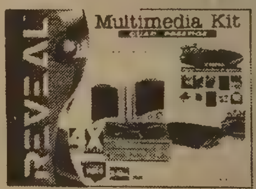

INTERNAL QUAD-SPEED CD-ROM DRIVE MULTIMEDIA UPGRADE KIT

- 16-Bit stereo sound card
- 8 watt stereo speakers
- New Grolier Multimedia Encyclopedia
- SimCity 2000 • World Atlas
- And 17 more titles!
- Cables, mounting hardware and installation video

$298

#2007081

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CREATIVE LABS, INC.

SOUND BLASTER VALUE CD MEDIA KIT

- Sound Blaster 16 stereo sound card
- Double-speed internal CD-ROM drive
- Stereo speakers
- Includes 5 multimedia software titles

$198

#2003995

Sun Moon Star

MULTIMEDIA UPGRADE KIT

- **Panasonic Internal Double-speed CD-ROM Drive**
- 320ms access time
- 300KB per second data transfer rate
- 64KB cache memory
- Motorized Tray
- 16-bit sound card
- Speakers
- Includes: Groliers Multimedia Encyclopedia 1995, Jack Nicklaus Golf, Falcon AT, Cyclones and JETS

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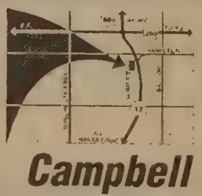

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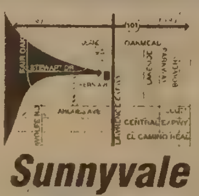

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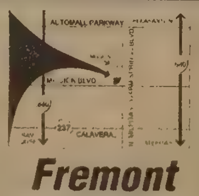

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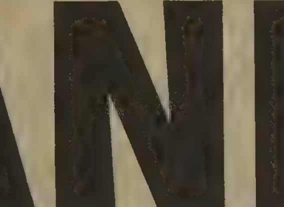

- 600DPI Optical / 2400 Interpolated
- 30 Bit Color / 10 Bit Grey Scale Flatbed Scanner
- Includes Corel Photo- Paint, Colera Word Scan
- Interface included.

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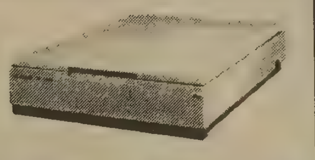
Canon

IX-4015 COLOR IMAGE SCANNER



The IX-4015 comes with everything you need to start scanning today, including a Quick Start Guide, OFOTO 2.0 for Windows, SCSI Cable and Cable Terminator, and TWAIN Device Driver for the PC

- 400 dpi x 1200 dpi Maximum Resolution
- Color: 12 - 800 dpi, Monochrome: 12 - 1200 dpi
- SCSI Interface

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Fax and Copy full page Color and Grayscale Scanner with a 10-page document feeder.

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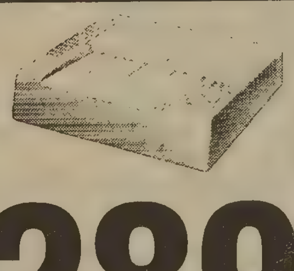

- 600 DPI
- Supports 16 million colors
- 2.5ms per line scanning
- OCR software included
- One year warranty

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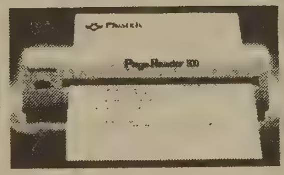

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- Jumperless Installation

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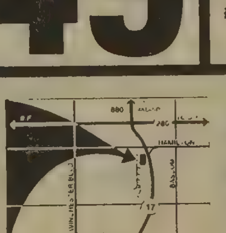

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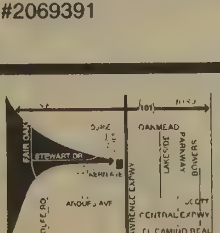

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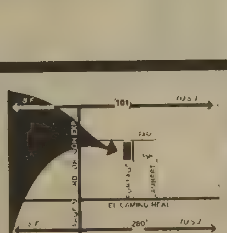

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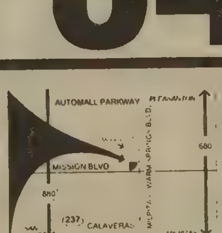

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THE CD-ROM ACCELERATOR COMPANY

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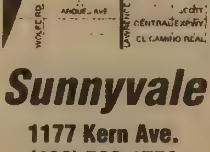

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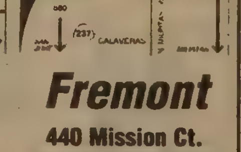

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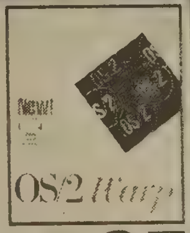

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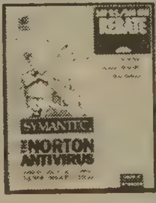

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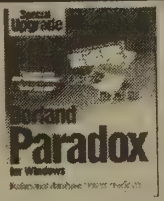

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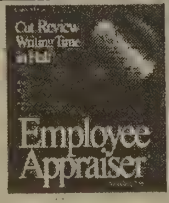

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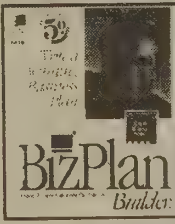

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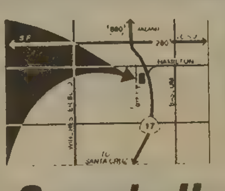

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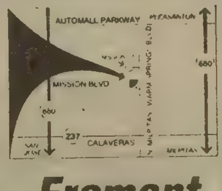

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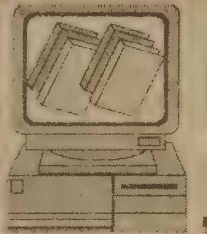

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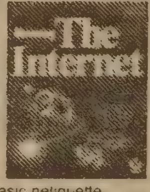

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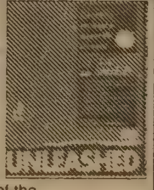

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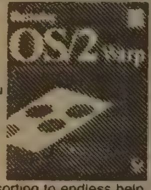

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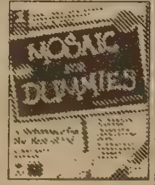

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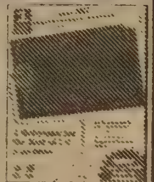

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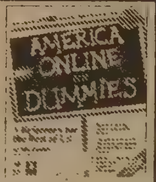

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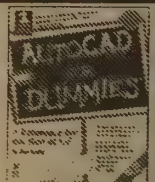

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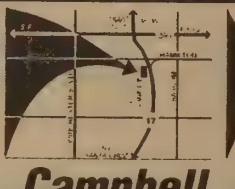

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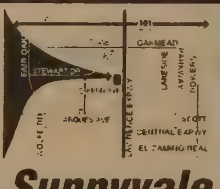

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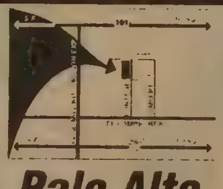

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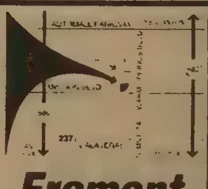

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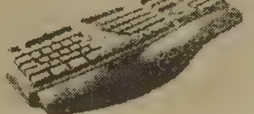

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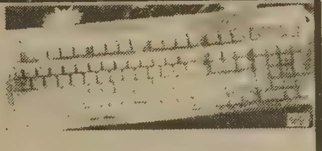

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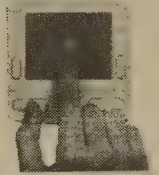

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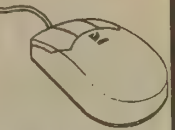

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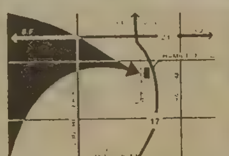

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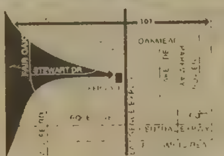

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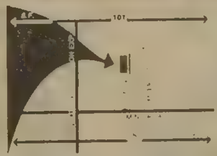

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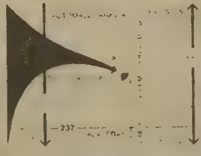

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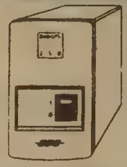

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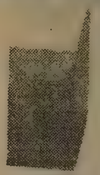

Standby 425VA Ups with Serial Interface and Windows 3.1/95 Auto-Shutdown Software
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5-OUTLET POWER CENTER w/FAX/MODEM PROTECTION

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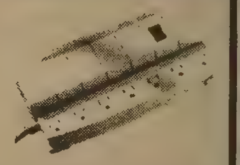

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Surge Protection
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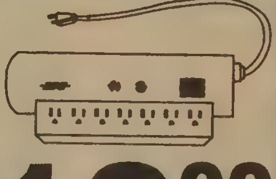

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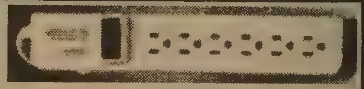

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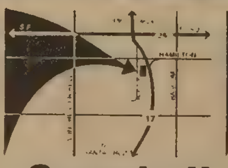

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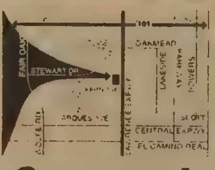

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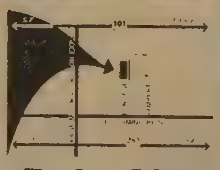

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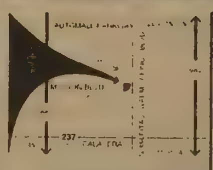

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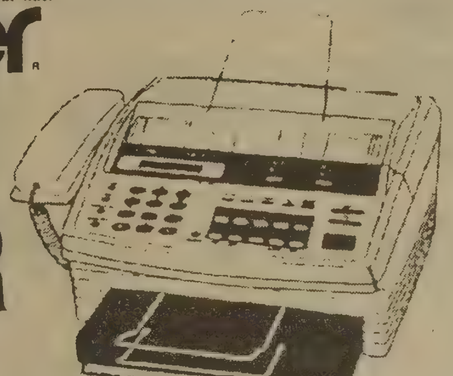

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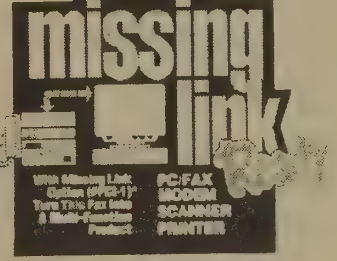
With the optional PCI-1 missing link you can turn your plain paper FAX into a multi-function FAX for PC/FAX modem, scanner, and printer integration with you PC! Other features include 256K memory for broadcasting or up to 10 pages of out-of-paper reception, 20 page document feeder, 200 sheet capacity paper tray, 90 number memory, 64 level grayscale, copier functions with enlargement/reduction capabilities, and much more! An invaluable investment for the home or office at just...



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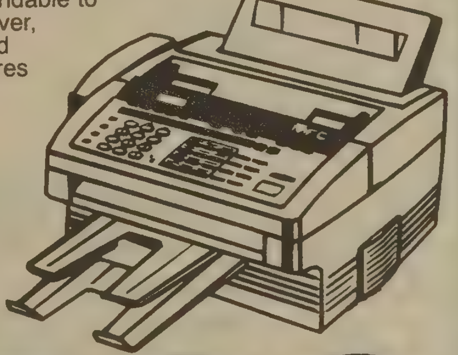
FAX • PRINTER • COPIER • SCANNER • FAX MODEM

MULTI-FUNCTION LASERFAX MACHINE

The Brother MFC-4500ML five-in-one multi-function center integrates five separate products into one compact desktop package! Fax features include 512K memory for 20 pages of document storage either for broadcasting or out-of-paper reception (upgradable to 70 pages/1.5MB), 200 sheet paper tray, 64 level grayscale, 124 number memory, and much more! As a printer for your computer this machine provides 300 x 300 dpi laser 6 page per minute output as well as 512K memory (expandable to 20MB), Optimized Windows driver, Intelliprint, 45 internal fonts, and Power save mode. Other features include multiple copying up to 99 copies with reproduction/enlargement capabilities, 200 x 400 dpi scanner with Windows PC and fax/modem. The ultimate fax machine for home or office is now available for just...



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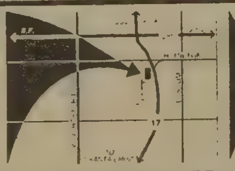

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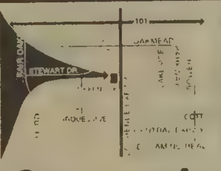

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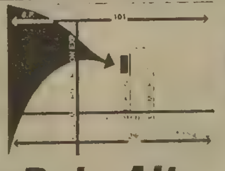

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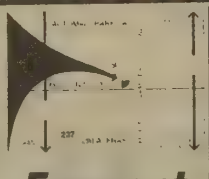

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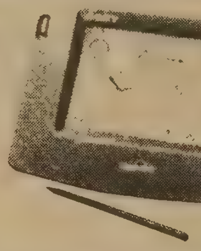

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#1959305

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PALMTOP COMPUTERS

PSION SERIES 3

POCKET SIZED 512K COMPUTER
WITH BUILT-IN SPREADSHEETS

Psion has redefined the state of the art in hand held computers with the new Series 3. It may be small, but this pocket-sized programmable computer comes equipped with features found in desktop machines plus powerful built-in software, including a full specification word processor and outliner that's compatible with Microsoft word. When using the Series 3 you will quickly learn from the system of graphic displays and option list how easy the Series 3 is to use. And with Psion's unique Multitasking Operating System, as many of the facilities as you want can be used at the same time! Other features include an automatic phone dialer,world information, a time and personal management file, powerful graphics programming language (OPL/w) which will enable you to write your own applications and two expansion ports for plug in SSD devices for unlimited memory and software.

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DOS COMPATIBLE WITH GEOS OPERATING SYSTEM

Now an amazing device, no bigger than a small paperback book, can store your hand written notes and sketches, arrange your calendar, keep track of hundreds of phone numbers and addresses, help organize your personal finances, perform complex mathematical calculations, give you easy access to electronic mail and a host of sophisticated on-line information services. With up to 100 hours of operation from 3AA Alkaline batteries, and S-RAM or Flash card compatibility, the versatility and performance of this PDA is unmatched at only...

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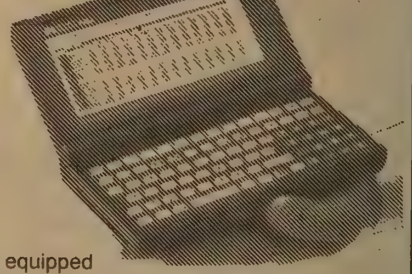

1MB PALMTOP COMPUTER
WITH 80x25 FULL SCREEN MS-DOS 5.0 & BUILT-IN POCKET QUICKEN

The smallest, lightest HP PC ever comes equipped with complete organizer software to manage your time, tasks and data, plus you can retrieve information instantly with a full range of built-in personal productivity tools. The pull-down menus and dialogue boxes make it simple to master the familiar commands, and the high-resolution display with zoom option is easy to read ! With Lotus 1-2-3 built-in you will have full spreadsheet capability, including graphics and macros. Also includes CC:Mail built-in. Now only...

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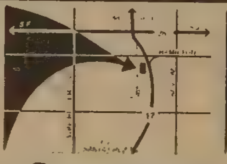

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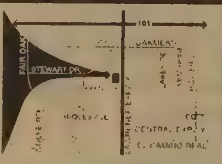

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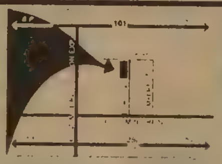

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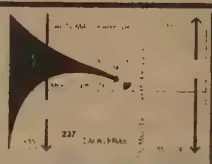

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Answering System with Auto-Logic Operation, Tone Remote Control, Digital Display, Message Memo Recording and remote turn on, Auto-Logic Operation automatically rewinds, plays messages, stops at the last message and resets itself at the touch of one button.

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Model KX-T1000
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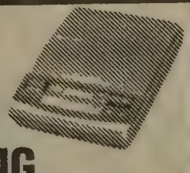

TWO LINE ANSWERING MACHINE

WITH VOICE TIME/DAY STAMP

Perfect for the home or office, this Panasonic two line answering machine offers voice time/day stamp, voice prompts, 2 variable greeting messages, room monitoring, message alert, call screening, auto interrupt, toll saver, and more. Now just...

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Model KX-T5300
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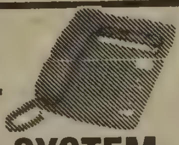

ALL DIGITAL 2 MAILBOX ANSWERING SYSTEM

WITH VOICE TIME/DAY STAMP

Panasonic's fully featured answering system comes equipped with 10 minute storage capacity, voice time/day stamp, 2 personal mailboxes with security, lcd display, message scan, 2-way record, selective message delete, message skip/repeat, auto disconnect, auto redial, 10 number memory, and much more! An invaluable addition to any home or office at just...

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Model KX-T2840
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OFFICE PHONES

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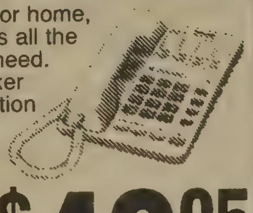
SPEAKERPHONE



For the office or home, this phone has all the features you need. It has a speaker phone, 28 station automatic dialer, automatic redial and much more.

$49.95

Model KX-T2315
#1530100

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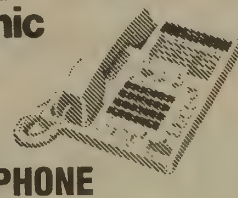

TWO LINE SPEAKERPHONE

A perfect compliment to your home or office, this two-line speakerphone comes equipped with 3-way conferencing, 20 number programmability, seperate ring switches for each line, and a local mode function. Now only...

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Model KX-T3120
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Panasonic

TWO LINE SPEAKERPHONE

From Panasonic comes this fully featured 2-line speakerphone with 3-way conference call, volume control for speaker and handset, 24-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

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Model KX-T3165
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CORDLESS PHONES

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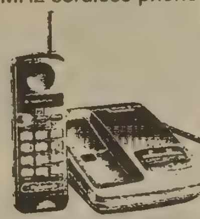
30 CHANNEL PALM-SIZED EXTENDED RANGE 900MHz CORDLESS PHONE



This Panasonic 900MHz cordless phone features a unique palm-sized design with lighted keypad, 30 channel access, high gain rubber antenna, reversible handset, sound charger, noise reduction technology, and more, all for just....

$199.95

Model KX-T9500
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10 CHANNEL CORDLESS PHONE

WITH 30 MINUTE CAPACITY ALL DIGITAL ANSWERING MACHINE

Panasonic has combined a premium performance 10 channel cordless phone with features that include LCD display on handset, 21 day battery stand by, intercom, 2-way paging, 10 number speed dialer and a 30 minute all digital answering machine that offers 4 mail boxes, voice time/day stamp, message scan (plays first 5 second of each ICM), message transfer, selective message delete, 2-way recording, and much more. Now only...

$279

Model KX-T4600
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FAX MACHINES

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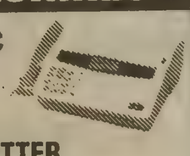

FAX MACHINE

WITH PAPER CUTTER AND SPEAKERPHONE

Panasonic line of fully featured fax machines start with this compact model which includes 64 level grayscale. super thermal paper compatible. paper curl reduction. 164' paper roll capacity. 15 page document feeder. distinctive ring. delayed transmission. paper save mode. telephone directory with alpha-search. 12 station one-touch with 28 station speed dialing. and much more. All for just...

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Model KX-F550
#1944271

Panasonic

FAX MACHINE

WITH PAPER CUTTER, SPEAKERPHONE AND ALL DIGITAL ANSWERING MACHINE

Panasonic line of fully featured fax machines includes this compact model which with 64 level grayscale, super thermal paper compatible, paper curl reduction, 164' paper roll capacity, 15 page document feeder, distinctive ring, delayed transmission, paper save mode. telephone directory with alpha-search. 12 station one-touch with 28 station speed dialing, and much more. All for just...

$345

Model KX-F750
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Panasonic

PLAIN PAPER FAX MACHINE

WITH 20 PAGE MEMORY

The ultimate plain paper fax from Panasonic features a jumbo LCD display, 70 page paper cassette, adjustable letter /legal tray, 32 level halftones, polling, activity reporting, 20 page document feeder, broadcasting to 128 locations, fax transfer, enlargement and reduction copier functions, fax/tel switch, 28-station one-touch dialer, 100-station speed dialer, telephone directory with alpha-search.

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Model KX-F3000
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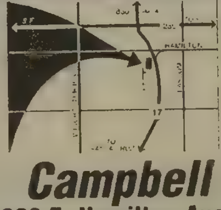

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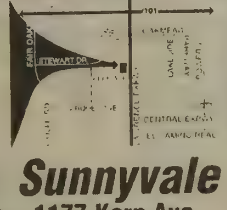

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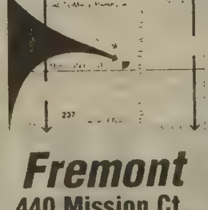

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This ingenious telephone uses dual ringers with distinct ringer sounds and seperate ringer controls for each line! By pressing the conference button you will be able to conduct a three way conversation. An excellent value at only...

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Model 2-9320
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SPEAKERPHONE

AT&T's popular speakerphone comes equipped with 12 number memory, redial, ringer adjust, mute, flash, and receiver volume control (a helpful feature for those who are hearing impaired or in a noisy environment). Now just..

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Model 706
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SPEAKERPHONE

With features like hands-free speakerphone, 32 number memory, hold, receiver and speakerphone volume control, last number redial, flash, ringer control, programmable pause, mute, just to name a few, this AT&T speakerphone will be an excellent addition to any home or office at only...

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Model 825
#1955046

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2-LINE SPEAKERPHONE

From Panasonic comes this fully featured 2-line speakerphone with 3-way conference call, volume control for speaker and handset, 24-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

$79.95

MODEL KX-T3165
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LETTER/LEGAL COPIER

Don't settle for a copy when you can have the original... Xerox. This model offers a paper tray that stacks 40 sheets, a built-in carrying handle and removable storable paper trays, multi-copy capability which can be set from 1 to 9 copies or "C" for continuous up to 20 copies, and automatic exposure which scans documents for degrees of lightness or darkness to determining the appropriate exposure setting. An invaluable addition to any home office. Refurbished to work like new at only...

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MODEL 5222B
#2040662

SHARP

LETTER/ LEGAL PERSONAL COPIER

Compact and lightweight, this Sharp copier weighs only 17.5 lbs. and fits virtually anywhere! Yet, it even lets users make multiple copies up to legal size (81/2" x 14") originals onto a wide range of papers from 81/2" to 4" x 6", allowing an expanded range of applications. Other features include auto exposure, 50 sheet paper tray capacity, auto start function and much more! An excellent value at just.....

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MODEL Z-27
#1892837

SHARP

LETTER/ LEGAL COPIER
WITH STATIONARY PLATEN

This durable Sharp copier utilizes a stationary platen, a space-saving feature that eliminates the possibility of the copier bumping into objects while in operation. The variable zoom ratio setting adjusts between 70% and 124% in 1% increments giving you more copying flexibility and versatility. Other features include large capacity 250 sheet tray, continuous copy (up to max. 50), auto start, and letter/legal capacity. An excellent value at...

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Conairs fully digital answering machine allows you to avoid the hassle of constantly rewinding and fast forwarding tapes typically found in answering machines, within seconds you can skip forward of backwards to the message of your choice! Features include tone remote control, ring select, flashing message counter, call screening, auto disconnect, vox, and much more. Now just...

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SONY.

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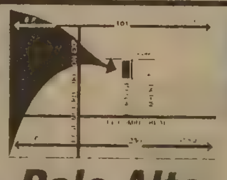

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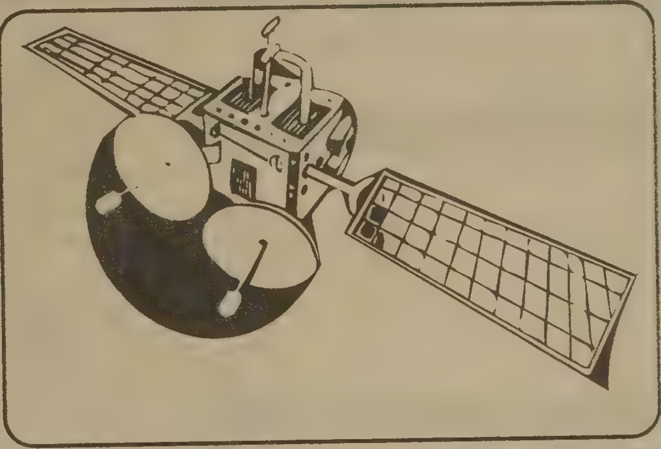

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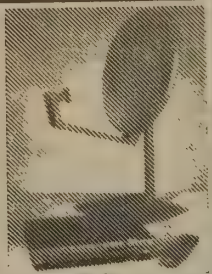

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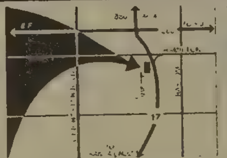

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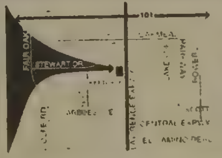

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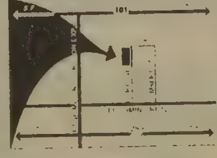

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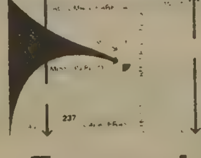

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Letters

continued from page 32

the effectiveness of a group's efforts. Volunteers choose their own schedules and levels of commitment.

We're especially excited about recent successful ventures with several school districts. In San Francisco, mentors have had a major part in making hundreds of used computers available to students; setting up new telecommunication systems for schools, students, and parents; and helping produce dozens of student publishing projects. This work is now restarting—on a much larger scale—for the new school year.

Right now CompuMentor especially seeks mentors with established skills who can offer to install, support, or tutor end-users in any of the following: Online systems/Internet/BBS; basic DOS and Mac hardware setup; desktop publishing; ISDN connectivity; multimedia applications; small to medium LANs; user-friendly database systems; and technology needs assessments.

If you'd like to share your computer skills, please contact us for more information! In San Francisco, call (415)512-7784, or send email to *cmentor@well.com* .

Our motto is "Helping People Use Computers to Make a Difference," and you can contribute to making that motto a reality!

Stephen Brown
Program Executive
CompuMentor
San Francisco

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Telecommuting

continued from page 56

The 900MHz cordless telephone looks like a flip-type cellular phone. With thirty channels to choose from, the device automatically picks the clearest one for each phone call. There's a built-in ninety-two-name telephone directory capable of searching for a person you want to call, then dialing his or her number automatically. The handset also has controls for the fax machine and the answering system, so you can make things happen from a lawn chair as easily as from your desk chair.

The fax portion of the machine can handle documents as large as 8-1/2" x 23-5/8", and can automatically reduce the size of incoming documents to handle larger originals sent to you, or to save on paper costs. One neat idea is that the machine can print "Urgent," "Confidential," or "Urgent Please Read" on outgoing documents. Another is its "curl reduction" technology that reduces the tendency of fax paper to wind itself into a tight spindle as you near the end of the roll.

The answering machine stores your outgoing message on a chip instead of a tape. It allows for easy "memo" recording so you can leave voice messages for others who use the machine. It distinguishes between fax calls and voice calls, and can silence the usual ringing noise on faxes, if you wish, while putting voice calls through normally. You can also set the machine to answer both fax and phone calls at certain times, but only phone calls at others.

With a list price of $1149, this one machine can cover most of your telecommuting telephone requirements—and a good deal more. ■

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RESOURCES:

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ASUS VIP M/B Intel 486DX4-75/100 MHz	278/318
ASUS VIP M/B AMD 486DX4-100/120 MHz	258/348
VESA Cyrix 486DX2-66/80 MHz	158/168
VESA Intel 486DX-33/DX2-66 MHz	208/228
AMD 386DX-40 MHz w/128K Cache	105

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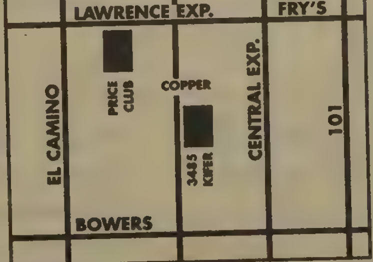

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UNIX *continued from page 64...*

printer with something like Easycopy/X, you might not be able to print exactly what you see on the screen. Right?"

"Right," beamed Knosebest. "It's the problem of end-to-end color consistency. What you need for that is a device-independent color space and a color management system. A color management system is a layer of software that takes care of translating between different device-dependent color spaces behind your back.

"Achieving consistent color is a big deal. Apple introduced the ColorSync system in 1992, and the major UNIX and PC vendors seem to have recognized the need for getting color management into their operating systems. Indeed, the big computer vendors are cooperating with the big photographic image houses (like Kodak and Agfa) to develop a standard for color-rendering devices. The vehicle for this cooperation is the International Color Consortium.

"In addition to ColorSync from Apple, Microsoft plans to include an Independent Color Matching module with Windows 95. Sun plans to incorporate a Kodak color management system in its Solaris operating system. Everybody's doing something."

> *"You know, we traipse all over the World Wide Web collecting interesting graphics. They're absolutely startling on the screen, but when you try to print them, something doesn't work exactly right. Right?"*

"Ah," they all thought, "things are looking up." And that afternoon they petitioned for membership in the International Commission on Illumination. ■

For Further Information:

Easycopy/X is made by AutoGraph International: 1762 Technology Drive, Suite 111, San Jose, CA 95110, phone: (408)436-7227; email: *sales@augrin.com*.

The International Commission on Illumination (CIE) has a Web page: *http://www.hike.te.chibau.ac.jp/ikeda/CIE*.

There's a FAQ (maintained by David Bourgin) for color spaces and related concepts. Check the news.answers group or download a copy via anonymous ftp: *rtfm.mit.edu:/pub/usenet/news.answers/graphics/colorspace-faq*.

David Poynton maintains a very fine FAQ about color and related topics. Poynton's FAQ can be reached via the Web: *http://www.inforamp.net/~poynton/Poynton-colour.html*.

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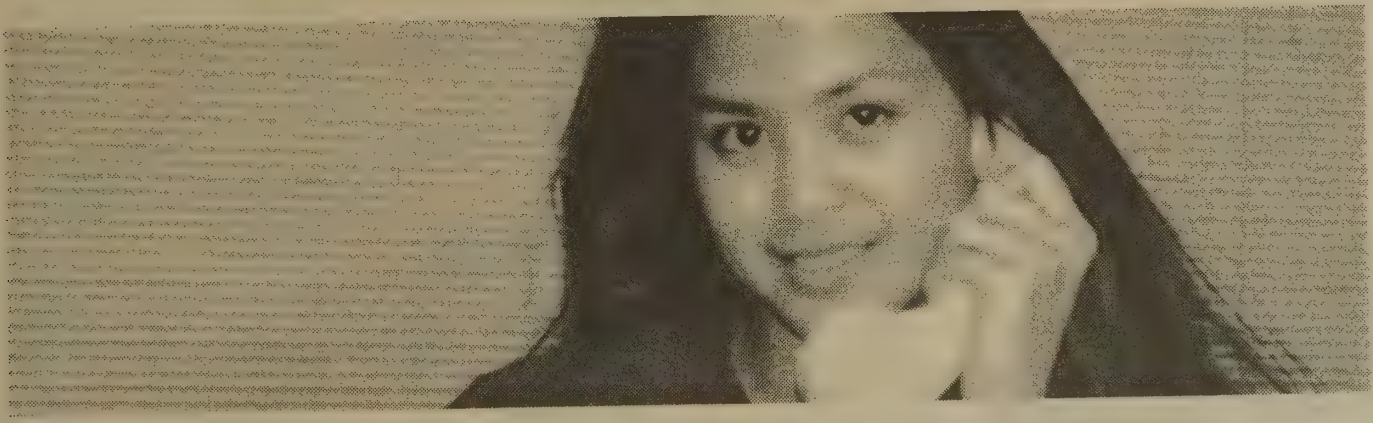

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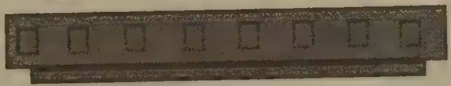

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Accounting *continued from page 90*

a user's hardware and software. "Help" is nothing like Taxpayer Assistance, at 1-800-829-1040; they won't offer any advice or tax help. (On second thought, maybe that's a similarity.)

Presently, the Help Desk has a response time of three to four days, which is pretty long for a help desk that offers so little help. They hope to eventually have a twenty-four-hour turnaround time.

The State of California maintains an extensive network of WWW and Gopher servers, and bulletin boards, including a WWW site for the Franchise Tax Board (*http://ceres.ca.gov/California/ftb/html/home.html*). One site maintained by the FTB (*http://resources.agency.ca.gov/California/ftb/html/home.html*) offers downloadable tax forms and instructions. There's no help desk here, but a list of 800 numbers of regional tax offices is available. The California Revenue and Taxation Code can also be found at this site.

And Now A Word From Commercial Sites

There are more CPAs and lawyers vying for your troubles on the Web than there are phone solicitors. Tax practitioners of every ilk are contracting gen-X design nerds to create interactive billboards.

First place prize for graphics goes to the Tax Wizard (Hargrave & Hargrave, CPAs, *http://taxwizard.com*).

Several sites are sponsored by major accounting firms, although most of these are international sites. Another notable is the Tax Prophet (*http://www.taxprophet.com*).

TaxDigest (*http://www.unf.edu/misc/jmayer/taxdig.html*) is a weekly newsletter that Gary Hoskins, CPA distributes to subscribers by email. It covers tax tips and news items relevant to individual taxpayers, and comes out several times a month.

Want More Tax?

A more comprehensive catalogue of tax-related materials on the Web is provided in a special, 11-page report in a recent issue of the *Journal of Taxation*. ■

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Complimentary reprints

of the following are available from David Simon's office in Oakland at (510)893-5753.

"WorldWide Web: The Latest Tax Resources on the Information Superhighway"
R. Coppins, D. Schmidt, R. Spindle, and W. Yancey
Journal of Taxation (August 1995).
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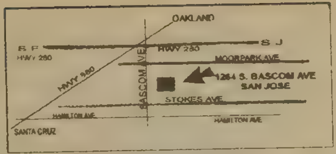

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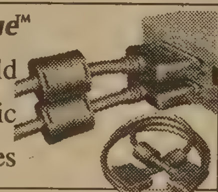

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continued from page 120

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And finally.... Now you can buy condoms via the Internet. For more details, point your browser at *http://www.ag.com/condom/country* .

Planning Issues

Clearly, it's not very difficult to put up a home page—it can be done passably well in less than a day. But just because you can do it doesn't mean you should do it. Before you touch that first HTML key, step back and ask yourself at least a few important questions:

Why do I want a home page? What will I do with it when I have one?

Who am I trying to reach with my home page? What can I offer them on it? In return, what do I want them to do?

Many people believe that home pages should be designed with full awareness of established marketing communication principles, including positioning, strategic planning, and audience segmentation. They claim home pages that don't make use of what we've learned in these areas start looking a lot like "information dumps," with little or no indication that the author has ever tried to consider the needs of those who will be viewing and using the page.

Generally, the best home pages are the simplest. Very elaborate or garish ones not only take a lot of time to download—discouraging some people from waiting—they're more difficult for you to keep up to date. And what can be more embarrassing than to have your Web page fall out of date?

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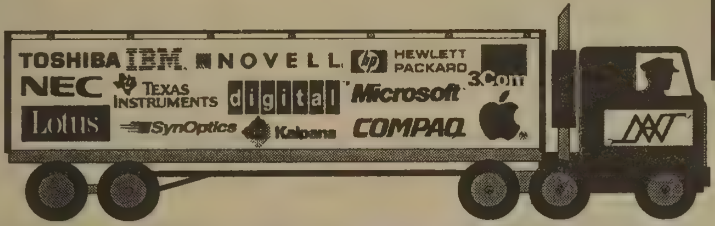
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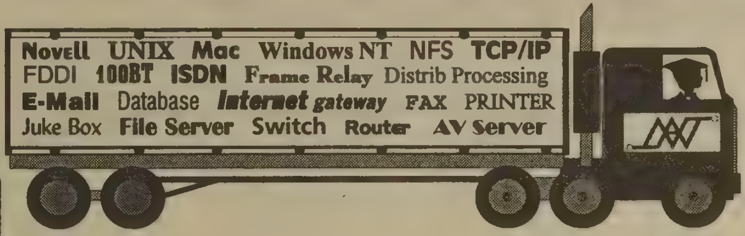
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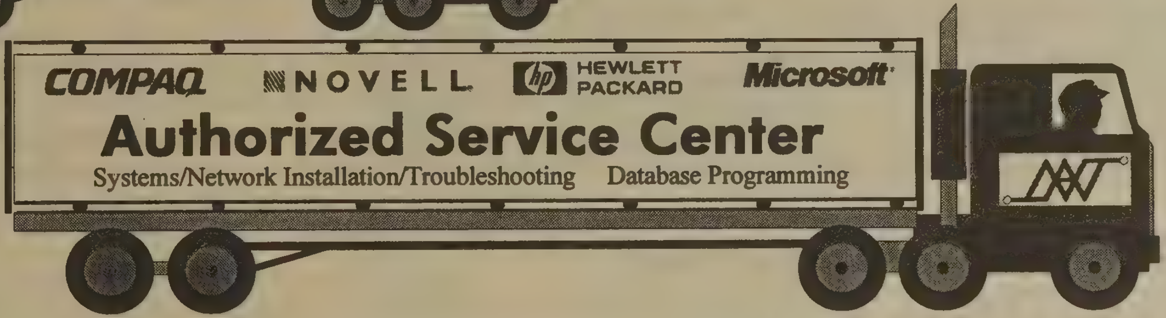
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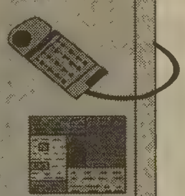

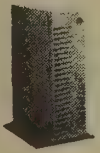

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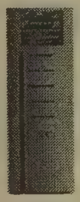

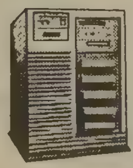

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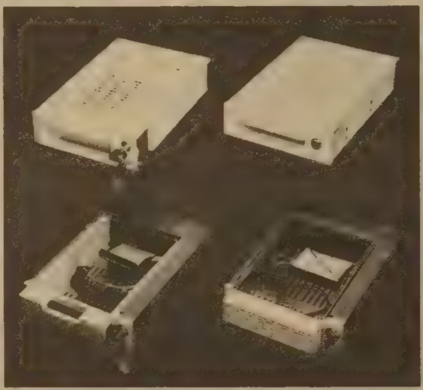

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Is A Web Page For You? *continued...*

Many successful home pages are organized quite simply, with title, a small graphic, and an introductory paragraph near the top, followed by a list of topics or—if you're posting a great deal of inform tion—several separate lists, each containing fairly homogeneous strongly related topics.

One rule to remember is that "negative space"—the absence of a graphics or text—is just as important as "positive space." Crowdi too much into too little home page real estate makes for a messy loo ing, uninviting vista.

Programming Your Home Page

Once you've done the necessary thinking, questioning, and doodlin you can begin to convert your ideas into actual computer files.

Fortunately, the same person who originally developed the W (Tim Berners-Lee) also came up with a simple programming meth that lets almost anyone who can write a page of text convert that te into a Web page, complete with hyperlinks to other pages on oth computers. It's an authoring system called HyperText Mark Language (HTML).

One nice thing about HTML documents is that carriage returns a extra spaces don't mess up your formatting. The HTML display so ware just does its own formatting on the text it recognizes, using t commands it knows. Almost everything else in your file gets ignored.

The software to do this type of authoring already exists, and h also been established for use with popular word processors you pro ably already know how to operate.

One of the simplest to use is an add-in for Word for Window Called the "InternetWorks Internet Assistant," it's nearly a megabyte code that adds new menu items and buttons to the basic Word scree Once you run the setup program, your original copy of Word is su ably modified, and you can convert between ordinary documents a HTML documents with a mouse click.

When you open an HTML document with the modified Word so ware, it automatically switches itself to properly display what the pa will look like when viewed via the Web. You can also view (but not c ate) Web pages with your Web browser by pointing it at a file na instead of a real Web address.

There's another nice pair of programs called HTML Assistant, a HTML Assistant Pro, both from Brooklyn North Software Works. Th enable you to write text and insert appropriate HTML code quite ea ly. They also allow you to check details of your code (such as ref ences to other resources and so forth) before you commit your W page to the Internet.

More programs are regularly reaching the market. For examp there's one called HoTMetaL for Sun Sparcstations, and one call HTML Edit for the Macintosh environment.

If you don't have HTML authoring software, you can still start w an ASCII file containing the text you want on your page. Modify it w any text editor simply by adding the codes to make that text displ the way you want it to. But this is a difficult and tedious process for the faint of heart.

Next time, we'll discuss what you do after you fire up your "W Page Authoring Software." ■

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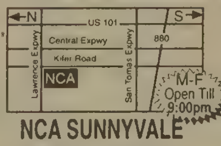

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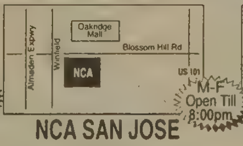

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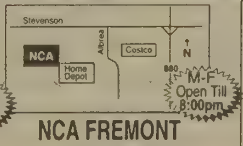

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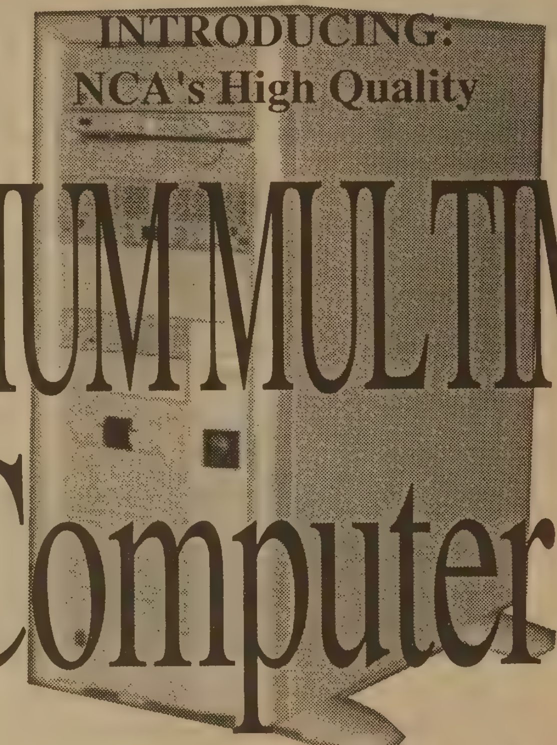

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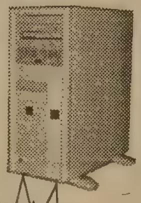

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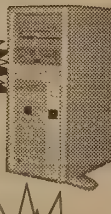

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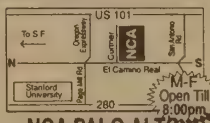

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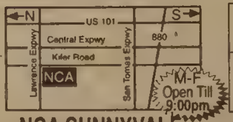

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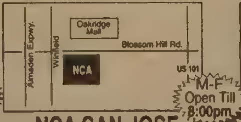

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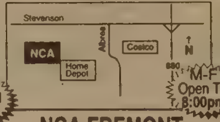

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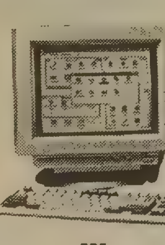

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- Seagate 540MB IDE hard drive
- 1.44MB floppy drive
- Mitsumi internal Quad-Speed 600/KB/s CD-ROM drive
- 16-bit sound card
- Amplified speakers
- Microsoft Mouse
- FCC certified

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Monitor not included

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486DX2/66 TOWER PCI OR VLB 540MB/4MB RAM-256K Cache Quad-Speed Multimedia Computer

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- 16-bit sound card
- Amplified speakers
- Microsoft Mouse
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Monitor not included

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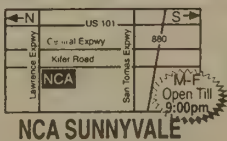

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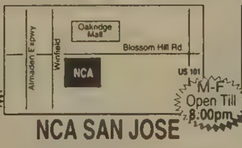

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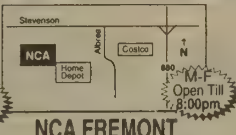

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1.6GB IDE 3.5"x1"

- 71626A
- Enhanced IDE
- 12ms, 4500RPM
- 128K Cache
- Durango Series

$435.95

Dual Drive Master Slave Support

IDE

425MB IDE..... $134.95
7425AV, 12ms, 2Yr. Warr., Enhanced IDE

540MB IDE..... $165.95
7540AV, 12ms, 2 Yr. Warr., Enhanced IDE

850MB IDE..... $195.95
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1.2GB IDE $248.95
71260A, 12ms, 256K Cache, 2 Yr. Warr., Enhanced IDE

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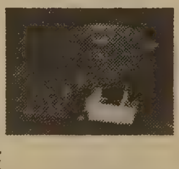

- AC2850
- 10ms
- 4500 RPM
- 64K Cache
- 3yr. warr.
- Enhanced IDE

$205.95

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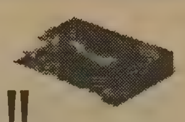
11MS. WD2540, 64K cache, 3Yr. Warr., Enhanced IDE

1.2GB IDE......... $295.95
10MS. WD31200A, 128K Cache, 64K cache, 3Yr. Warr., Enhanced IDE

1.6GB IDE......... $449.95
10MS. AC31600, 128K Cache, 5200RPM, Enhanced IDE

IBM®



1.0GB 3.5"x1" FAST SCSI-II

- DeskStar XP Series
- 10.5ms
- 5400 RPM
- 5 yr. warr.
- 512K

$349.95	$448.95
Internal	EXternal

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3.5"X1" Deskstar Series, 12ms, ATA-2, 128K Cache 2yr. warr., 4500RPM

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2.3GB FAST SCSI-II.	$1069.95	$1168.95
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4.5GB FAST SCSI-II...	$1499.95	$1598.95
8ms, 7200 RPM, 3.5", 512K Cache, 5yr. warr.		

QUALITY EXTERNAL SCSI CASE

For MAC, SUN, Silicon Graphics, and IBM Compatibles

- High Quality Metal Cases
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See Page 7

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4.2GB 3.5"x1" SCSI-II

- CFP4207S
- 7200RPM
- 9ms
- 512K Cache
- 5 yr. warr.

$1049.95	$1148.95
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540MB IDE $159.95
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850MB IDE $195.95
Cabo Series, CFS850A, 14ms, 64K Cache, 3600RPM, Low Profile 3.5"x1", 3yr. warr., Enhanced IDE

1.2GB IDE............ $235.95
14ms, CFS1275A, 3600RPM, 64K Cache, 3yr. warr., Enhanced IDE

SCSI Cayman-Antigua Series

1.0GB SCSI-II .. $399.95 ... $498.95
CFP1080S, 256K, 11ms, 5400RPM, 3.5"x1", 5yr. warr.

1.0GB SCSI-II .. $549.95 ... $648.95
CFP1080W, 11ms, 5400RPM, Fast Wide, 5yr. warr.

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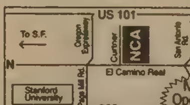
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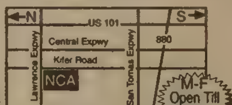
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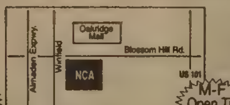
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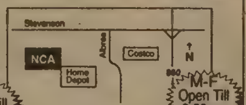
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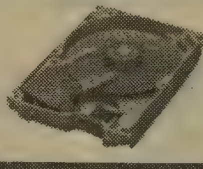

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CAPACITY	M/N	SEEK	SIZE	INTERNAL	EXTERNAL
540MB IDE	QM30540MVA	14ms	3.5"X1"	$162.95	N/A
540MB SCSI-2	QM30540MVS	14ms	3.5"X1"	$169.95	$268.95

LIGHTENING SERIES®

CAPACITY	M/N	SEEK	SIZE	INTERNAL	EXTERNAL
730MB IDE	QM30730LTA	11ms	3.5"X1"	$182.95	N/A
730MB SCSI-2	QM30730LTS	11ms	3.5"X1"	$209.95	$308.95

DAYTONA SERIES® - 2.5"

CAPACITY	M/N	SEEK	SIZE	INTERNAL	EXTERNAL
256MB Fast ATA	QM20256DYA	17ms	2.5"	$247.95	N/A
341MB Fast ATA	QM20341DYA	17ms	2.5"	$279.95	N/A
514MB Fast ATA	QM20514DYA	17ms	2.5"	$325.95	N/A
256MB SCSI-2	QM20256DYS	17ms	2.5"	$249.95	$348.95
341MB SCSI-2	QM20341DYS	17ms	2.5"	$289.95	$388.95
514MB SCSI-2	QM20514DYS	17ms	2.5"	$349.95	$448.95

EUROPA SERIES® - 2.5" NEW!

CAPACITY	M/N	SEEK	SIZE	INTERNAL	EXTERNAL
540MB Fast ATA	QM20540EUA	14ms	2.5"	CALL	N/A
810MB Fast ATA	QM20810EUA	14ms	2.5"	CALL	N/A
1.08GB Fast ATA	QM21080EUA	14ms	2.5"	CALL	N/A

FIREBALL SERIES®

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
540MB FastATA-2	QM30540FBA	5400	12ms	3.5"X1"	$175.95	N/A
540MB FastSCSI-2	QM30540FBS	5400	12ms	3.5"X1"	$185.95	$284.95
1.0GB FastATA-2	QM31080FBA	5400	12ms	3.5"X1"	$235.95	N/A
1.0GB FastSCSI-2	QM31080FBS	5400	12ms	3.5"X1"	$315.95	$414.95

TRAILBLAZER SERIES®

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
420MB FastATA-2	QM30420TRA	4500	14ms	3.5"X1"	$145.95	N/A
420MB FastSCSI-2	QM30420TRS	4500	14ms	3.5"X1"	$169.95	$268.95
850MB FastATA-2	QM30850TRA	4500	14ms	3.5"X1"	$199.95	N/A
850MB FastSCSI-2	QM30850TRS	4500	14ms	3.5"X1"	$245.95	$344.95

GRAND PRIX SERIES® *RAID READY!*

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
4.3GB-Fast SCSI-II	XP34301S	7200	8.6ms	3.5"	$999.95	$1198.95
4.3GB-Fast/Wide	XP34301SW	7200	8.6ms	3.5"	$1099.95	$1198.95

ATLAS SERIES®

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
2.1GB-SCSI-II	XP32150S	7200	8.5ms	3.5"	$865.95	$964.95
2.1GB-Fast Wide	XP32150SW	7200	8.5ms	3.5"	$909.95	$1008.95
4.3GB-SCSI-II	XP34300S	7200	8.5ms	3.5"	$1479.95	$1578.95
4.3GB-Fast Wide	XP34300SW	7200	8.5ms	3.5"	$1539.95	$1638.95

CAPELLA SERIES®

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
2.2GB-SCSI-II	VP32210S	5400	8.5ms	3.5"	$689.95	$788.95
2.2GB-Fast Wide	VP32210SW	5400	8.5ms	3.5"	$775.95	$874.95

2 year warranty on all drives - 5 year on all over 1.0GB - 1 year on all 2.5"

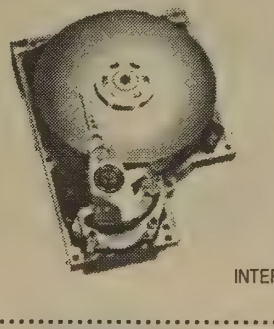
▶ FACTORY NEW WITH FULL FACTORY WARRANTY

Seagate

BARRACUDA SERIES®

2.1GB SCSI-II - AV READY

- ST32550N
- Barracuda II
- 3.5"x1", 8ms
- 7200RPM
- 512K cache
- Fast SCSI-II
- 800,000MTBF
- 5 year warranty



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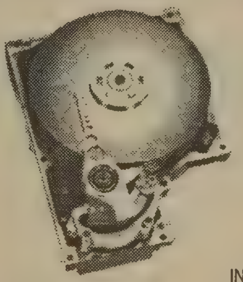
INTERNAL **$919.95**

External.. $1018.95

HAWK IV SERIES®

4.3GB SCSI-II - AV READY

- ST15230N
- Hawk IV
- 3.5", 9ms
- 512K cache
- 5400RPM
- Fast SCSI-II
- 800,000MTBF
- 5 year warranty



Lowest Price Guaranteed*

INTERNAL **$1059.95**

External.. $1158.95

IDE

CAPACITY	M/N	CACHE	SEEK	SIZE	PRICE
540MB-ATA	ST3660A	ATA	14ms	3.5"X1"	$162.95
850MB-Fast ATA-2	ST5850A	256K	11ms	3.5"X1"	$208.95
1.08GB-Fast ATA-2	ST31220A	ATA-2	12ms	3.5"X1"	$239.95

SCSI

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
1.05GB-SCSI-II	ST31230N	5400	9ms	3.5"X1"	$459.95	$558.95
1.05GB-Fast Wide	ST31230W	5400	9ms	3.5"X1"	$629.95	$728.95
2.1GB-SCSI-II	ST32430N	5400	9ms	3.5"X1"	$809.95	$908.95
2.1GB-Fast Wide	ST32430W	5400	9ms	3.5"X1"	$949.95	$1048.95
2.1GB-SCSI-II	ST32550N	7200	8ms	3.5"X1"	$919.95	$1018.95
2.1GB-Fast Wide	ST32550W	7200	8ms	3.5"X1"	$1125.95	$1224.95
4.3GB-SCSI-II	ST15150N	7200	8ms	3.5"	$1399.95	$1498.95
4.3GB-Fast Wide	ST15150W	7200	8ms	3.5"	$1575.95	$1674.95
4.3GB-SCSI-II	ST15230N	5400	9ms	3.5"	$1059.95	$1158.95
4.3GB-Fast Wide	ST15230W	5400	9ms	3.5"	$1149.95	$1248.95
9.0GB-SCSI-II	ST410800N	5400	10ms	5.25"	$2299.95	$2499.95

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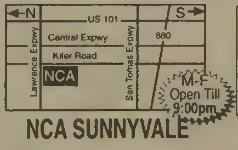

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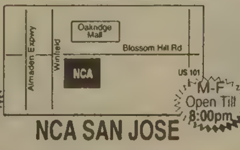

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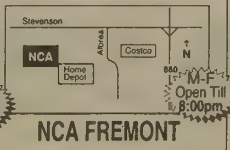

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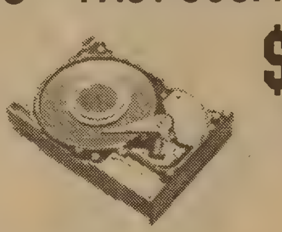
5 YEAR WARRANTY

9.1GB 5.25" FAST SCSI-II

Novell Labs Tested & Approved

- MC1991
- 12ms Seek Time
- 5400RPM
- 5.25"
- 650,000MTBF
- 5 year warranty



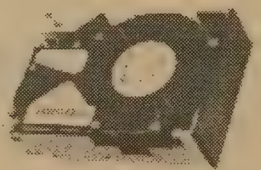
$2099⁹⁵

EXTERNAL...$2299⁹⁵

Lowest Price Guaranteed*

3.0GB INTERNAL SCSI-II

- MC1936
- 11ms Seek Time
- 5400RPM
- 5.25"
- 5 year warranty



$799⁹⁵

EXTERNAL...$999⁹⁵

SCSI

CAPACITY	M/N	CACHE	SEEK	SIZE	Internal	External
1.75GB	MC2217S	5400	10ms	3.5"	$759⁹⁵	$858⁹⁵
1.75GB	MC2217AV		Audio/Video	3.5"	$849⁹⁵	$948⁹⁵
2.0GB	MC4221	7200	8.5ms	3.5"	$965⁹⁵	$1064⁹⁵
2.0GB	MC4221AV		Audio/Video	3.5"	$1088⁹⁵	$1187⁹⁵
3.0GB	MC1936	5400	11ms	5.25"	$799⁹⁵	$999⁹⁵
3.0GB	MC1936AV		Audio/Video	5.25"	$825⁹⁵	$1025⁹⁵
4.0GB	MC3243S	7200	8.5ms	3.5"	$1325⁹⁵	$1424⁹⁵
4.0GB	MC3243AV			3.5"	$1485⁹⁵	$1584⁹⁵
9.1GB	MC1991	5400	12ms	5.25"	$2099⁹⁵	$2299⁹⁵
9.1GB	MC1991AV		Audio/Video	5.25"	$2299⁹⁵	$2499⁹⁵

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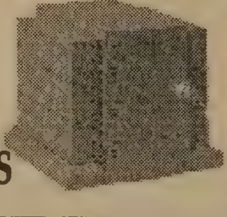

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Novell Labs Tested & Approved

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1.0GB SCSI-II 3.5"X1"

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NEW!

- M1606
- 3.5"X1" Drive
- 10ms Seek Time
- 5400 RPM
- 3-Year Warranty

$329⁹⁵

EXTERNAL...$428⁹⁵

IDE

CAPACITY	M/N	CACHE	SEEK	SIZE	PRIC
525MB	M1603TAU	512K	10ms	3.5"X1"	$165
530MB	M2684TAU	256K	12ms	3.5"x1"	$165
1.0MB	1606TAU	512K	10ms	3.5"x1"	$229

SCSI

CAPACITY	M/N	CACHE	SEEK	SIZE	Internal	Externa
525MB	M1603S	512K	10ms	3.5"x1"	$189⁹⁵	$288⁹
530MB	M2684SAU	256K	12ms	3.5"x1"	$195⁹⁵	$294⁹
1.0GB	M1606SAU	512K	10ms	3.5"X1"	$329⁹⁵	$428⁹

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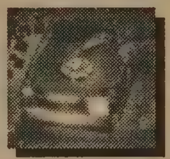
High Quality Hard Drives

1.2GB SCSI-II 3.5"X1"

- HP 3724
- 9.5ms Seek Time
- 5400RPM
- 512K cache
- Up to 20Megabytes/s burst(synchronous)
- 5-Yr. Warr.

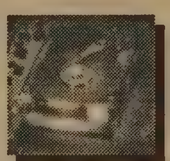


$399⁹⁵

EXTERNAL....$498⁹⁵

2.1GB SCSI-II 3.5"X1"

- HP 3725S
- 8.9ms Seek Time
- 6400RPM
- 512K cache
- 57 Mbits/s Trans. Rate
- Up to 20Megabytes/s burst(synchronous)
- 5-Yr. Warr.
- 800,000 MTBF



$749⁹⁵

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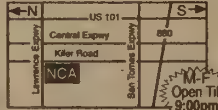
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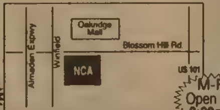
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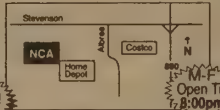
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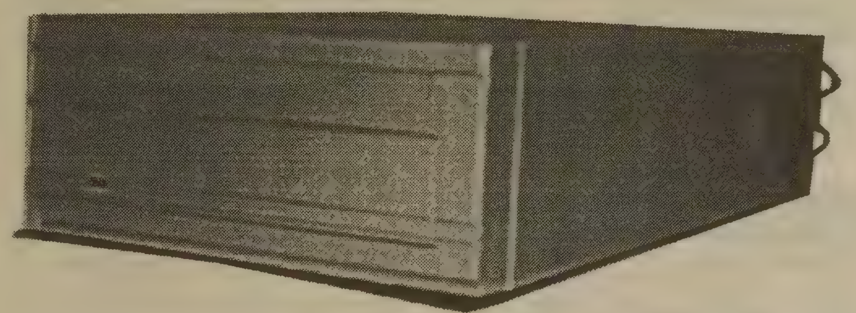

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IZE	INT. DRIVE	SEEK	WARRANTY	PRICE
20Mb	Quantum Trailblazer	14ms	2Yr	$\$268^{95}$
40Mb	Quantum Maverick	14ms	2.Yr	$\$268^{95}$
25Mb	Fujitsu	10ms	2Yr	$\$288^{95}$
30Mb	Fujitsu	12ms	2Yr	$\$294^{95}$
40Mb	Quantum Fireball	11ms	2Yr	$\$284^{95}$
30Mb	Quantum Lightening	11ms	2Yr	$\$308^{95}$
50Mb	Quantum Trailblazer	14ms	2Yr	$\$344^{95}$
0Gb	Quantum Fireball	11ms	2Yr	$\$414^{95}$
0Gb	Conner	<10ms	5Yr	$\$498^{95}$
0Gb	Conner	FAST WIDE	5Yr	$\$648^{95}$
0Gb	IBM	10.5ms	5Yr	$\$448^{95}$
0Gb	Fujitsu	10ms	3Yr	$\$428^{95}$
05Gb	Seagate	9ms	5Yr	$\$558^{95}$
05Gb	Seagate-FW	9ms	5Yr	$\$728^{95}$
2Gb	HP3724S	9.5ms	5Yr	$\$498^{95}$
75Gb	Micropolis	10ms	5Yr	$\$858^{95}$
0Gb	Micropolis	8.5ms	5Yr	$\$1064^{95}$
1Gb	Quantum XP32150S	8.5ms	5Yr	$\$964^{95}$
1Gb	Quantum XP32150SW	Fast SCSI-2	5Yr	$\$1008^{95}$
14Gb	Conner	8.5ms	5400rpm	$\$798^{95}$
14Gb	Conner	8.5ms	7200rpm	$\$848^{95}$
1Gb	Seagate ST32430N	9ms	5Yr	$\$908^{95}$
1Gb	Seagate ST32430W	Fast Wide	5Yr	$\$1048^{95}$
1Gb	Seagate ST32550N	9ms	5Yr	$\$1018^{95}$
1Gb	Seagate ST32550W	Fast Wide	5Yr	$\$1224^{95}$
1Gb	HP3725S	8.9ms	5Yr	$\$848^{95}$
2Gb	Quantum VP32210S	8.5ms	5Yr	$\$788^{95}$
3Gb	IBM	7.5ms	5Yr	$\$1168^{95}$
0Gb	Micropolis	8.5ms	5Yr	$\$1424^{95}$
2Gb	Conner	8.5ms	7200rpm	$\$1148^{95}$
2Gb	Quantum XP34301GPS	8.5ms	7200rpm	$\$1098^{95}$
2Gb	Quantum XP34301SW	8.5ms	7200rpm	$\$1198^{95}$
3Gb	Seagate 15230N	9ms	5Yr	$\$1158^{95}$
3Gb	Seagate 15230W	FAST Wide	5Yr	$\$1248^{95}$
3Gb	Seagate 15150N	8ms	5Yr	$\$1498^{95}$
3Gb	Seagate 15150W	Fast Wide	5Yr	$\$1674^{95}$
3Gb	Quantum XP34300S	8.5ms	7200rpm	$\$1578^{95}$
3Gb	Quantum XP34300SW	8.5ms	7200rpm	$\$1638^{95}$
5Gb	IBM-Ultra Star XP Series	8ms	7200rpm	$\$1598^{95}$

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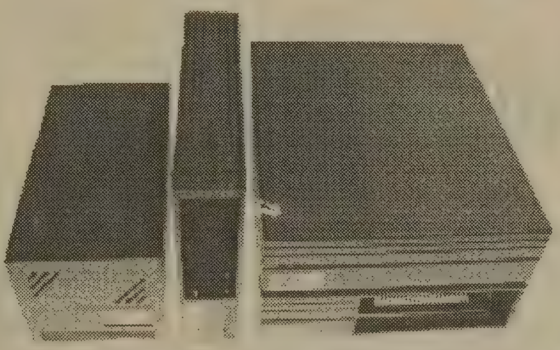
External FH Fixed SCSI Disk Drives

SIZE	MAKE	SEEK	WARRANTY	PRICE
3.0Gb	Micropolis 1936	11ms	5Yr	$\$999^{95}$
3.0Gb	Micropolis 1936AV	Audio/Visual	5Yr	$\$1025^{95}$
9.0Gb	Seagate 410800N	10ms	5Yr	$\$2499^{95}$
9.1Gb	Micropolis 1991	10ms	5Yr	$\$2299^{95}$
9.1Gb	Micropolis 1991AV	Audio/Visual	5Yr	$\$2499^{95}$



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250Mb	Connor Viper	2150S	1/4"	$\$395^{95}$
525Mb	Conner Viper	2525S	1/4"	$\$555^{95}$
525Mb	WangTek	5525S	1/4"	$\$515^{95}$
1.3Gb	Connor Viper	2750	1/4"	$\$897^{95}$
1.5Gb	Exabyte	FS1G		$\$899^{95}$
2.5Gb	Exabyte	EXB8205	8mm	$\$1389^{95}$
5.0Gb	Exabyte	EXB8505	8mm	$\$2279^{95}$
2.0Gb	HP	35470	4mm	$\$864^{95}$
2.0Gb	Connor Python	4320NT	4mm	$\$895^{95}$
2.0Gb	WangDat	3100	4mm	$\$845^{95}$
4.0Gb	Connor Python	4324 Turbo	4mm	$\$933^{95}$
5.0Gb	Exabyte	EXB4200C	4mm	$\$965^{95}$
2-4.0Gb	HP	35480	4mm	$\$947^{95}$
4-8.0Gb	WangDat	3200	4mm	$\$889^{95}$
4-8.0Gb	WangDat	3400Dx	4mm	$\$1088^{95}$
4-8.0Gb	HP	C1533A	4mm	$\$1117^{95}$

EXTERNAL SCSI CD ROMs:

SIZE	MODEL	SEEK	TRANSFER	PRICE
TOSHIBA	3601B	150ms	600Kb	$\$398^{95}$
TOSHIBA	5301B	150ms	600Kb	$\$348^{95}$
NEC	3Xp	240ms	450kb	$\$375^{95}$
NEC	4Xe	220ms	600kb	$\$479^{95}$
NEC	6Xe	145ms	900kb	$\$585^{95}$
Plextor	Six-Speed		900kb	$\$564^{95}$
Plextor	Quad-Speed 256 CACHE		600kb	$\$408^{95}$
PIONEER	604X (6 disk changer)	300ms	612Kb	$\$788^{95}$
PIONEER	1804 (18 disk changer)	300ms	614Kb	$\$1778^{95}$
Backpack	DOUBLE-SPEED	250ms	300kb	$\$297^{95}$
Backpack	QUAD-SPEED	300ms	600kb	$\$384^{95}$
Panasonic	200M QUAD-SPEED	200ms	600kb	$\$358^{95}$
Addonics	Double-Speed			$\$225^{95}$
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Chinon	CD-545S Quad-Speed	230ms	600kb	$\$398^{95}$

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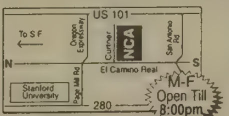

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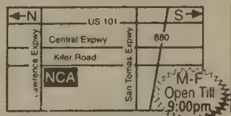

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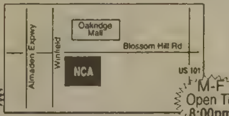

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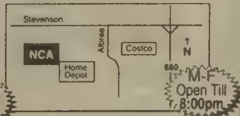

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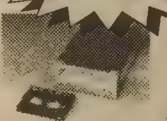

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1.5 GB SCSI Tape Storage

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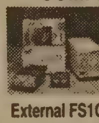

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CAPACITY	MODEL	INT.	EXT.
5.0GB	EXB-8505	$\$1988^{95}$	$\$2279^{95}$

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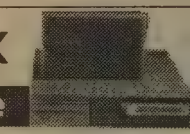

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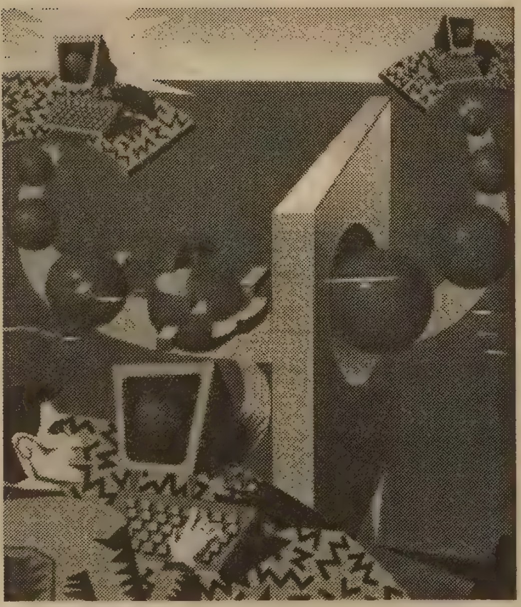

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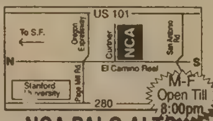

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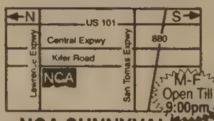

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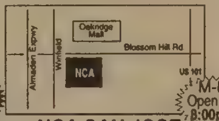

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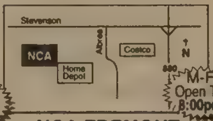

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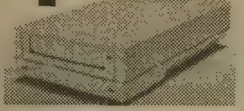

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- Twice as fast as internal floppy drive
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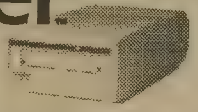
$304.95

Trakker



PARALLEL PRINTER PORT
EXTERNAL TAPE BACK-UP SYSTEMS

RUNS OFF PARALLEL PRINTER PORT

CAPACITY	MODEL/TYPE	EXTERNAL
350MB TRAKKER	350	$275.95
800MB TRAKKER	800	$304.95

POWER TAPES HIGH CAPACITY TAPE DRIVES

1.0GB	**PT-10**	INTERNAL	$579.95
DC 6000 • 525MB native • 1.05GB compressed • Uses QIC-525		EXTERNAL	$749.95
2.0GB	**PT-25**	INTERNAL	$919.95
DC 6000 • 1.2GB native • 2.48GB compressed • Uses QIC-1GB		EXTERNAL	$1025.95
4.0GB	**PT-50**	INTERNAL	$1111.95
DC 6000 • 2.08GB native • 4.08GB compressed • Uses QIC-2GB		EXTERNAL	$1234.95

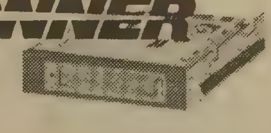
COLORADO MEMORY SYSTEMS

RUNS OFF FLOPPY PORT

CAPACITY	MODEL/TYPE	INTERNAL
350MB	DJ30 JUMBO350	$129.95
800MB	T-1000 (TRAVAN TYPE DRIVE)	$189.95
1.4GB	DJ50 JUMBO1400 w/CONTROLLER	$294.95

350MB UPGRADE KIT (FROM 250MB TO 350MB) $49.95
EXTERNAL KIT WITH CARD AND CABLES KE-10 .... $109.95
EXTERNAL TAPE PORT AB-11 .... $26.95
FC-20 TAPE CONTROLLER, WITH CABLES $85.95
TC-15 HIGH PERFORMANCE 16-BIT CONTROLLER $179.95

TAPE•STOR
CONNER



TAPE BACKUP

420MB 420FBE
INTERNAL $134.95
EXTERNAL $279.95

800MB TST800(TRAVAN TYPE DRIVE)
INTERNAL $185.95
EXTERNAL $286.95

1.7GB TSM1700
INTERNAL $309.95

4.0GB 4000RFBC
INTERNAL $519.95

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CORPORATION

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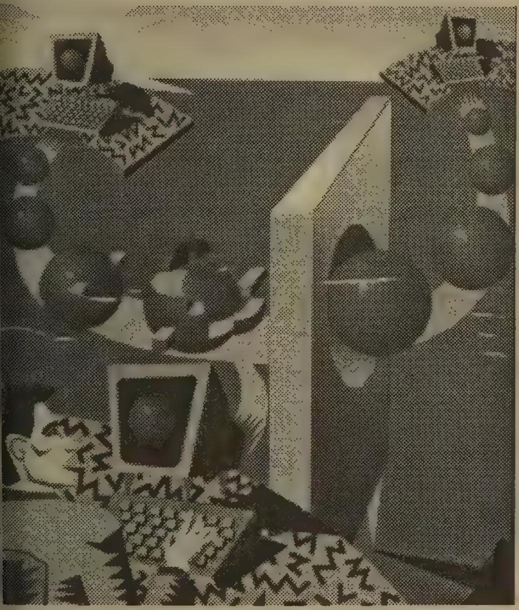

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- •Full Mouse Support
- •Intuitive point-and-shoot file selection
- •Logging options for error reporting
- •Full restore functions to different directories or files
- •Automatic configuration
- •Built-in scheduler and user-created macros for transparent operation
- •Easy operation from batch files

$64.95 OS/2 Version	**$39.95** Windows '95 Version-True 32-Bit
$64.95 MAC Version	**$439.95** Novell-NLM Unlimited Users
$439.95 Novanet JR. 1000 Users	**$249.95** Novanet JR. 50 Users

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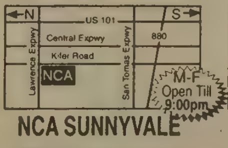
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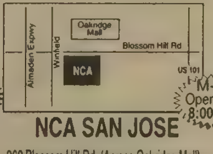
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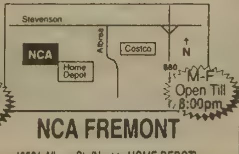
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REMOVABLES

OPTICALS

HEWLETT PACKARD

1.3GB Multifunction Rewritable & WORM Drive
- HP C1716T
- SCSI-2 1.3GB

INTERNAL
$1999.95

EXTERNAL.....$2299.95

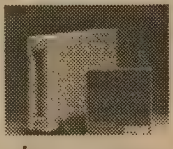
EXTERNAL
C2550 WITH CARTRIDGE
$2419.95

1.3GB Cartridge: $99.95

FUJITSU NEW!

230MB Rewritable, Removable Optical SCSI Drives

External SCSI 230MB, 3.5" Rewritable Optical



- External optical drive
- Using 2512 internal
- Includes 1 cartridge
- Fast seek time
- 3600RPM
- 256K Cache
- Software for MAC(free upon request)

$639.95

Internal 230MB, 3.5" Rewritable Optical

- Bare optical drive
- 2512
- Low Profile, Only 1"
- 3600RPM
- 256K Cache
- Fast Seek Time

NEW!

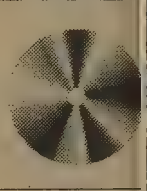
$525.95

RECORDABLE CD DRIVES

PINNACLE MICRO

Recordable Compact Disc

COMPACT disc



RCD 1000 - External for Macintosh $1429.9

RCD 1000 - PCA20 - Ext. for PC W/ Adaptec 1520 .... $1429.9

RCD 1000PCAi/20 - Int. for PC W/ Adaptec 1520.......... $1265.9

All Pinnacle Micro recordable CD drives come with SCSI cable, terminator and premastering softwar

Recordable media: RCD74 - 74 min ...$19.9

IBM NEW!

IMAGESTAR FAMILY

230MB, INTERNAL BASIC MAGNEDO REMOVABLE 3.5"	$559.95
230MB INTERNAL KIT MAGNEDO REMOVABLE 3.5"	$659.95
230MB EXTERNAL MAGNEDO REMOVABLE 3.5"	$689.95
1.3GB INTERNAL MO 5.25" REMOVABLE HH (SINGLE)	$1739.95
1.3GB EXTERNAL MO 5.25" REMOVABLE FH (SINGLE)	$2075.95

FLOPPY DRIVES

TEAC	1.44MB 3.5"	$37.95
	1.2MB 5.25"	$45.95
	1.2/1.44MB Dual Drive	$91.95
MITSUMI	1.44MB 3.5"	$29.95
	1.2MB 5.25"	$39.95

With bracket on any floppy drive, add $6

REMOVABLES

SyQuest

High Quality Removable Drives

88MB SYQUEST REMOVABLE

External 88MB Drive
- 88MB Cartridge
- Cables
- Reads & Write Both 44 & 88 MB
- Installation Software (for MAC)
- PC Software Included With Controller Purchase

$375.95

Internal Bare Drive $259.95

105MB 3.5" SYQUEST REMOVABLE

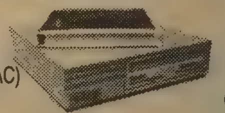
External SCSI 105MB Drive
- 14ms Seek Time
- 105MB Cartridge
- Cables
- Installation Software (for MAC)
- PC Software Included With Controller Purchase

$375.95

Internal SCSI Bare Drive $233.95

Internal IDE Bare Drive $179.95

200MB SYQUEST REMOVABLE



External 200MB Drive
- 200MB Cartridge
- Cables
- Installation Software (for MAC)
- PC Software Included With Controller Purchase

499.9

Internal SCSI Bare Drive $357.9

270MB SYQUEST REMOVABLE

External SCSI Drive
- External 270MB 3.5" SCSI Removable Cartridge Drive
- Unlimited Storage Capacity
- 270MB External Drive
- Cables & Software for MAC
- 13.5ms Seek Time
- Includes one cartridge

$467.9

Internal Bare IDE Drive $333.9

Internal Bare SCSI Drive $338.9

SYQUEST MEDIA

CAPACITY	SINGLE	5-PACK
44MB Cartridge (5.25")	$46.95	$225.9
88MB Cartridge (5.25")	$52.95	$255.9
105MB Cartridge (3.5")	$57.95	$275.9
200MB Cartridge (5.25")	$79.95	$389.9
270MB Cartridge (3.5")	$63.95	$310.9

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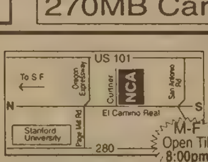

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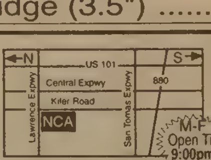

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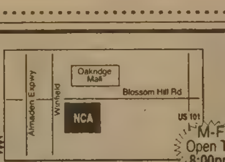

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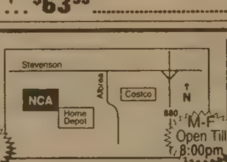

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CONTROLLERS

DTC DATA TECHNOLOGY

Your Enhanced IDE Solutions Source

- High performance - Transfer rates to 16.6MB/sec (mode4)
- Expandability - Supports 4 devices including ATAPI CD-ROMs
- Compatability - LBA support for drives >528MB (system BIOS support also required, except DTC2278EB)
- Driver support - 32bit enhanced drives for all major operating systems

DTC 2278D	VESA	w/ multi I/O	$^{\$}24^{95}$
DTC 2278D+	VESA	w/ fast serial	$^{\$}33^{95}$
DTC 2278E	VESA	w/ fast serial & parallel	$^{\$}38^{95}$
DTC 2278EB	VESA	w/ BIOS for >528MB support & fast serial & parallel	$^{\$}42^{95}$

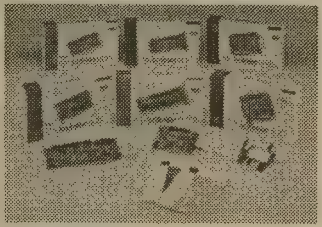
Your Price Performance SCSI Solution Source

- High performance - 10MB/sec.
- Connectivity - Supports up to 7 SCSI devices
- Driver Support - Supports all major operating systems

CI Multi Connector3130B		$^{\$}119^{95}$
TC 3274	VESA Bus Master	$^{\$}179^{95}$

BUSLOGIC

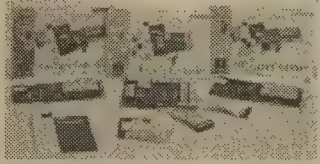
Bus Master SCSI Accelerator Host Adapters



- Fast SCSI-2 data transfers of up to 10MB/second
- Fast & Wide SCSI-2 data transfers of up to 20MB/second
- Support for up to 7 or 15 (Wide) SCSI devices and dual floppy (not supported on PCI)
- Compatible with all major operating systems & SCSI peripherals
- Simple to install & configure using the AutoSCSI utility
- Includes award-winning CorelSCSI for CD-ROM

KT-545C	ISA	$^{\$}208^{95}$
KT-445C	VESA	$^{\$}195^{95}$
KT-747C	EISA	$^{\$}298^{95}$
KT757C	Wide EISA	$^{\$}348^{95}$
KT-946C	PCI	$^{\$}254^{95}$
KT-956C	Wide PCI	$^{\$}307^{95}$

IDE Disk Accelerators Outperform All Enhanced IDE Controllers



- Reduce average disk access time to as low as 0.3ms
- AutoIDE utility for ease of installation & configuration
- Cache expandability from 512KB to 16MB
- Disk mirroring support for 100% disk fault tolerance
- Attatch up to 4 IDE drives, up to 4GB each
- Green Mode reduces power consumption

KT-510A	ISA	$^{\$}89^{95}$
KT-410A	VESA	$^{\$}119^{95}$
KT910A	PCI	$^{\$}165^{95}$

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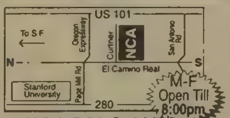
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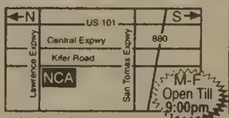
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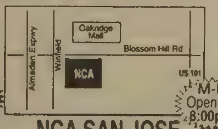
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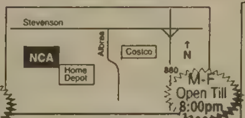
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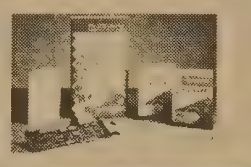
CONTROLLER CARDS

SCSI CONTROLLERS

adaptec



SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
AHA-1460	Slim SCSI PCMCIA SCSI Card	$195.95
1505	TOTAL CD 16-BIT SCSI-II	$55.95
1515	Total Connect ISA to SCSI host adapter w/ BIOS	$85.95
1522	16-BIT 7HD/2FD KIT	$135.95
1542CP	BUS MASTER COMPLETE KIT	$235.95
2742/W	Fast Wide SCSI EISA	$347.95/$375.95
2825VL	TOTAL ADVANTAGE VL	$155.95
2842A	Fast SCSI-II VESA	$231.95
AHA-2940	PCI SCSI MASTER RISC-BASED I/O	$249.95
AHA-2940W	PCI FAST-WIDE SCSI	$304.95
APA-348	SlimSCSI PLUS	$119.95
APA-358	SlimSCSI EPP	$155.95
AVA-4510	Card Park Dual Slot ISA to PCMCIA adapter	$177.95
3940	Twin Channel PCI	$405.95
3940W	Twin Channel PCI wide	$474.95
3985	PCI RAID Adapter w/ 3RISC Processors	$709.95

DTC DATA TECHNOLOGY

SCSI CONTROLLERS

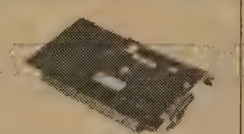
MODEL	DESCRIPTION	PRICE
DTC3130B	PCI 32-Bit PCI SCSI Bus Master w/Bios	$119.95
DTC3274VL	SCSI-II Bus Mastering	$179.95

PROMISE TECHNOLOGY,INC.

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
DC-440	VLB SCSI-2 BUS MASTER w/IDE Interface	$184.95

qlogic Corp.



FAST!SCSI EISA FL

Host Adapter Card for the EISA Bus

- Patented 400 Series high-speed SCSI processor
- CorelSCSI for CD-ROM & HDD included FREE
- Uses a single 32-bit EISA slot
- Comprehensive software support
- 50-Pin internal SCSI cable with support for 3 devices provided
- Floppy connector supports 2 floppy drives
- Supports up to 7 SCSI devices

$199.95

Host Adapter Card for the PCMCIA Bus	$164.95
Host Adapter Card for the VESA Local Bus FL	$189.95
Host Adapter Card for the ISA Bus FL	$115.95

FAST!SCSI PCI Basic

Host Adapter Card for the PCI Bus

- High speed, single-chip SCSI processor
- Uses a single PCI slot
- SCAM level 2 upgrade
- Supports Fast SCSI-2 (10MB/sec.)
- Comprehensive software support
- CorelSCSI for CD-ROM & HDD software-FREE
- 50-pin high density external connector
- 50-pin internal connector including ribbon cable with support for 3 internal devices
- Supports up to 7 SCSI devices

$119.95

FAST!SCSI IQ PCI Wide

Host Adapter Card for the PCI Bus

- Bus Master
- Uses a single PCI slot
- Fast(10MB/sec.) & Wide(20MB/sec)SCSI cabability
- High speed ISP1020 12 MIPS RISC SCSI processor
- Supports up to 15 SCSI devices

$295.95

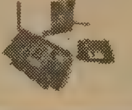
FAST!SCSI IQ PCI-10

Host Adapter Card for the PCIA Bus

- 12 MIPS RISC SCSI processor
- Over 4000 512-byte block I/Os p.s.
- Uses a single PCI slot
- Supports Fast SCSI-2 (10MB/sec.)
- CorelSCSI for CD-ROM & HDD software-FREE
- 50-pin high-density internal connector, including ribbon cable with support for 3 internal devices

$205.95

BUSLOGIC



SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
KT545C	ISA Bus Master Fast SCSI Adapter Kit	$208.95
KT445C	Bus Master Fast SCSI Kit for VL Bus	$195.95
KT742A	EISA Bus Master SCSI-II Adapter Kit	$278.95
KT747C	EISA Bus Master Fast SCSI	$298.95
KT757C	FASTWIDE SCSI Card	$348.95
KT946C	Bus Master Fast SCSI for PCI Local Bus	$254.95
KT956C	WIDE PCI Card	$307.95

IDE CONTROLLERS

ATI ATronics International Inc. *We Deliver Advanced Technology*

IDE FAST ATA

MODEL	DESCRIPTION	PRICE
DC-75	All in one VESA Enhanced IDE + Enhanced I/O	$39.95
DC-95G	VESA Enhanced IDE with I/O	$29.95

IDE CONTROLLERS

NCA'S STANDARD IDE

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
211	2HD/2FD W/16550, 1PAR, 1GAME	$25.95
223EH	2HD/2FD for VESA LOCAL BUS 16550 I/O	$44.95

BUSLOGIC

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
KT510A	IDE Cache Contoller For PC/AT Sys.	$89.95
KT410A	IDE Cache Controller for VLB	$119.95
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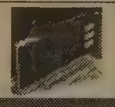

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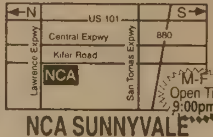

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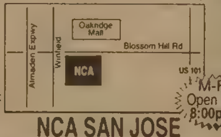

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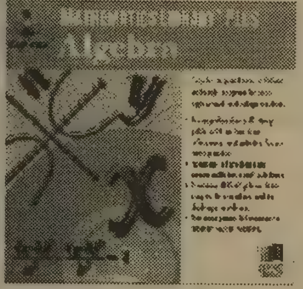
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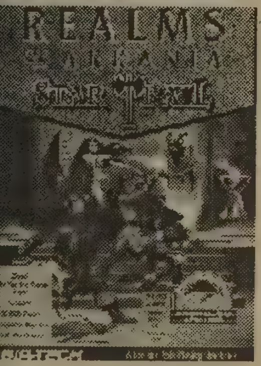
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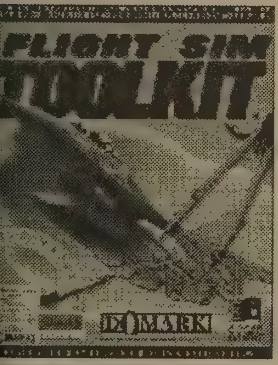
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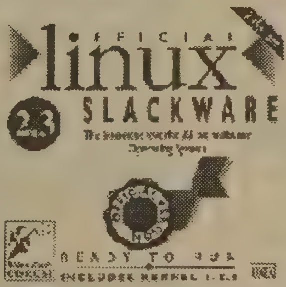
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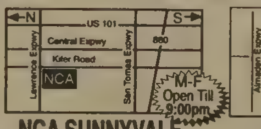
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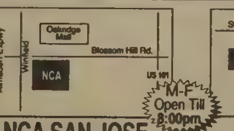
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- Can co-exist w/second AT CD-ROM

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- 250ms. access time
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- DOS OS/2 Device drivers
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Double-Speed Parallel Port External CD-ROM Drive

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Portable External Double Speed Parallel Port CD-ROM Drive

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- Includes cables, driver, and installation disk

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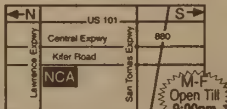

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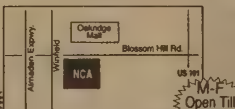

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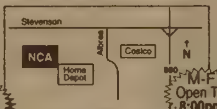

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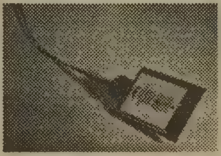

- V.34 28.8 Kbps data
- 14.4 Kbps Groups 1-3 fax
- Cellular data ready
- Hayes AT command set compatible
- Data & fax software included
- Easy installation and use
- Includes software for Prodigy, American On-Line, Compuserve, and QuickLink
- 5 year warranty

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PCMCIA SCSI-II Adapter

- PCMCIA release 2.01, Type I cards fit in any Type I, II, or III slot
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- Includes a high flexibility 3 foot 25-pin to 50-pin low density SCSI cable
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WAVE TABLE SOUND DAUGHTER BOARD

WAVETABLE SYNTHESIS UPGRADE FOR THE WORLD'S MOST POPULAR SOUND CARDS

Maximum 32 notes, 16 parts (Dynamic Voice Allocation), 4 MB Voice ROM, Max. 676 voices, 21 drum kits, 11 types of reverb, 11 types of chorus, 42 types of variation

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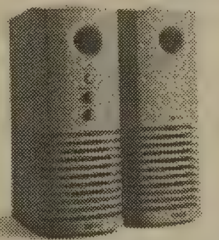
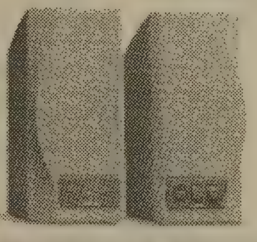


- 3 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 90Hz-20KHz ± 3dB
- Includes AC Adapter

$28^95*

YST-M10



- 10 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 80Hz-20KHz ± 3dB
- Includes AC Adapter
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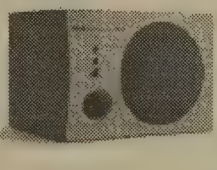
YST-MSW10



- 25 Watts
- Video shielded
- Auto On/Off Switching
- Active Servo Technology delivers Life-like sound
- 35Hz-250KHz ±10db

$169^95

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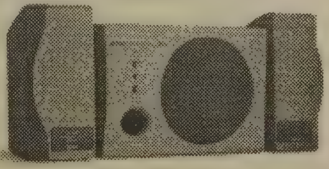

YST-MSW10 subwoofer *PLUS* YST-M10 speakers (see descriptions above)

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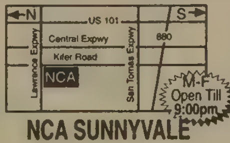

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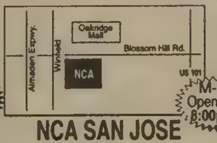

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The Fastest Real-World Windows Accelerator

Dynamite

Hercules Picture Windows display lets you change your Windows display setting with a click of a mouse!

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The Complete 64-Bit Solution-SuperStable Refresh Rates up to 150Hz-Unrivaled, World-Class Service & Support

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9FX Vision 330 VLB OR PCI BUS

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- Place windows
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- NEW performance standard with 128-bit acceleration
- 4MB high speed VRAM
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Imagine 128-1600	$889.95

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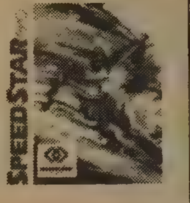

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Jakarta

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Graphics Accelerator

- Dramatically accelerates all Multimedia CD's including games & MPC titles
- 2MB window accelerator
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- Plays full motion, full screen MPEG Video CDs with CD quality sounds
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- Channel presets-select groups of channels such as sports, news, or comedy-then select from only those channels
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Works with Jazz MPEG video only!

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Works with Jazz MPEG video only!

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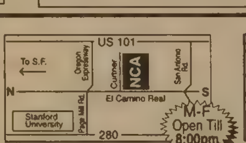

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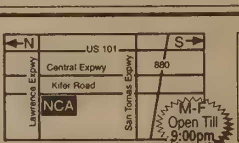

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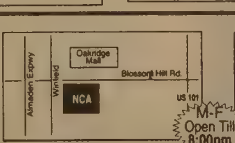

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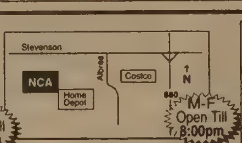

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Introducing MGA Millennium: The new dimension in graphics acceleration

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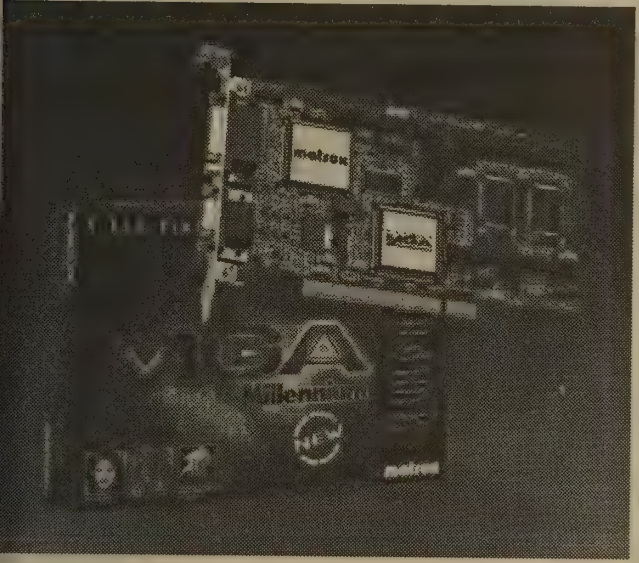
Fast acceleration for graphics, video and 3D at a low cost



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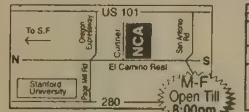
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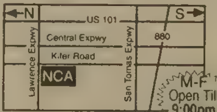
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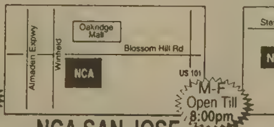
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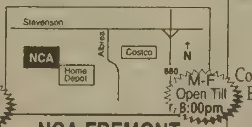
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Ultimate True Color Performance For The Graphics and Multimedia Professional

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- Ideal for CAD users, designers, and power users
- High performance 64-bit graphics acceleration
- Vivid true color graphics and sharp image definition
- Up to 16.7 million colors at 1280x1024 (800x600 for 2MB)
- Up to 100Hz refresh rates to help reduce eyestrain
- 2MB (upgradable) and 4MB VRAM
- Extensive Windows utilities

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Value Packed 64-bit Graphics and Multimedia Perfomance

- Ideal for Windows or games users
- Fast 64-bit graphics acceleration
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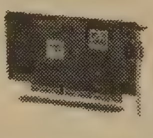
- Extensive Windows utilities
- Optimized for superior Windows '95 performance
- PCI, VLB and ISA versions



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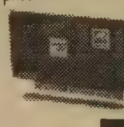
- Ideal for users who need fast performance at an affordable price
- Ultra fast 64-bit graphics acceleration
- Vivid colors and sharp image definition
- Up to 16.7 million colors at 800x600
- Up to 100Hz refresh rates to help reduce eye strain
- 2MB VRAM (non upgradable)
- Extensive Windows utilities
- Optimized for superior Windows '95 performance
- PCI, VLB, and ISA versions



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- Create dynamic, custom videos with your PC.
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True color graphics accelerator for Macintosh design and publishing professionals

- Designed specifically for the Power Macintosh 9500
- Superior 64-bit acceleration
- Vivid true color graphics and sharp image definition
- Coachmarked and task-assisted AppleGuide implementation
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- High refresh rates to reduce eye strain
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Portrait
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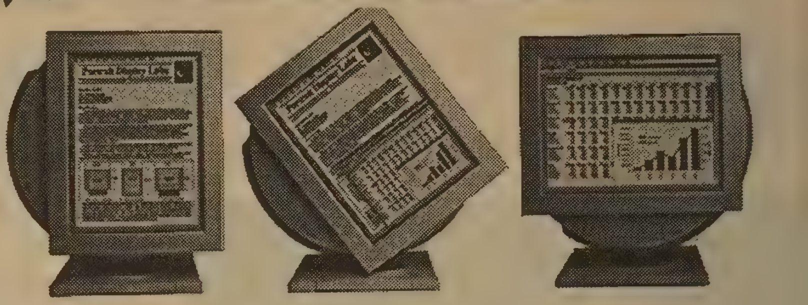

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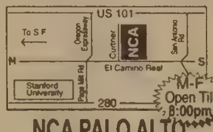

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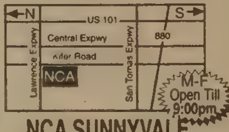

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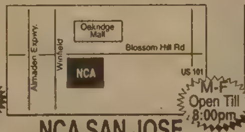

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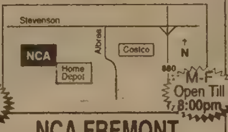

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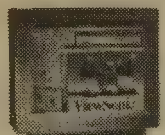
- 15" RGB color monitor w/built in stereo multimedia speakers
- 1280X1024
- Non-Interlaced
- TCO compliant
- .27dpi

$528.95

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iewSonic-15ES 1024 x 768 .28	$364.95
iewSonic-15GS 1280 x 1024 .27, TCO, OVC	$437.95

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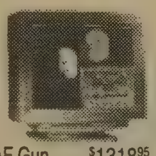
- 17" RGB color monitor built in multimedia stereo speakers
- 1280x1024 .27dpi
- Non-Interlaced
- Flat Screen

$875.95

iewSonic-17 1600x1024, 50-160Hz	$858.95
iewSonic-17GS 1280x1024, .27, TCO, 50-160Hz	$785.95

ViewSonic-20PS

- 20" RGB Color Monitor
- 1600x1280, .28dpi
- Non-Interlaced
- Dual Page Display

$1478.95

iewSonic-20G 1600x1280, digital controls, DQ-DAF Gun	$1318.95

ViewSonic-21PS

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- 1600X1280
- .25dpi
- Non-Interlaced

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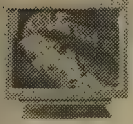
- 15" SVGA, Non-interlaced
- 1280x1024, .28dpi
- Flat Screen
- CM1587

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- 17" SVGA Non-Interlaced
- 1600x1200, .26dpi
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- 3 year warranty

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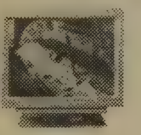
- 20" SVGA Non-Interlaced
- 1600x1200
- Flat Screen
- CM2096

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- Energy Star Compliant

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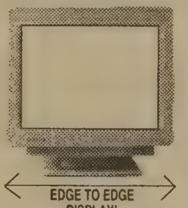
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MXP17F 17" Non-Int. 1600x1280, .26dpi	$909.95
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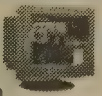
NEC

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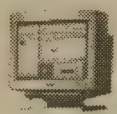
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- .25dpi, MPR-II
- 50-90Hz
- Energy Star

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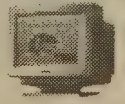
- 15" Color Monitor
- 1280X1024, .25dpi
- Non-Interlaced

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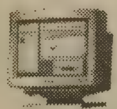
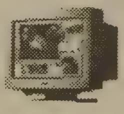
GDM-17SE1

- 17" Color Monitor
- 1280X1024, .25dpi
- Non-Interlaced

$1094.95

CPD-17SF

- 17" Color Monitor
- Max. Res. 1280x1024, .25dpi
- Non-Interlaced

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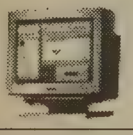
GDM20SE

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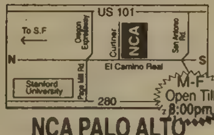

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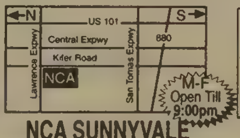

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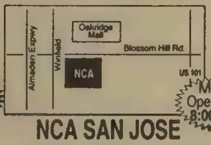

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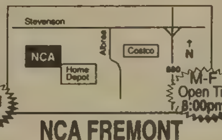

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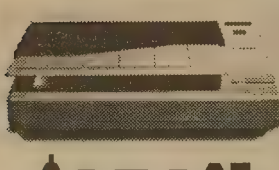

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- 8.5"x14" scanning area
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INCLUDES

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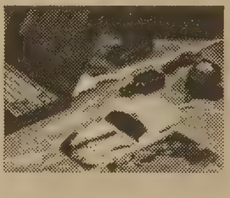

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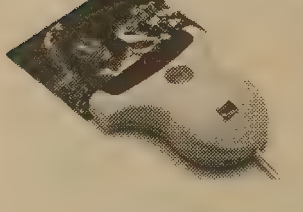

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•SCANNER
-ViewScan™ Color 16M A2000C
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•SOFTWARE
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-PhotoStacker Pro - Image Processing Software

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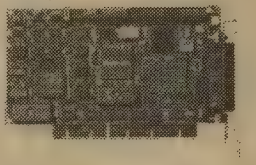

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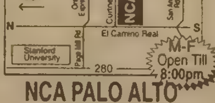

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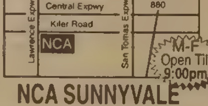

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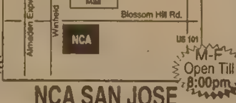

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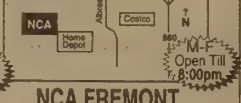

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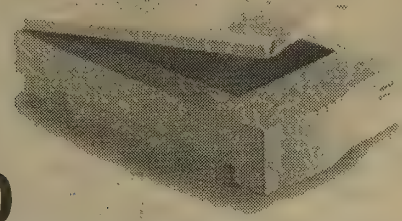
The Magic of Color™



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Your Affordable High Performance Color Scanner

- The Vista-T630 is the fastest 3 pass scanner on the market today
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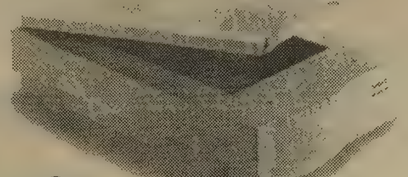

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- Choice of 2 exciting software bundles
- TWAIN compliant
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- Optional UTA

PC Software

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- Adobe Photoshop LE
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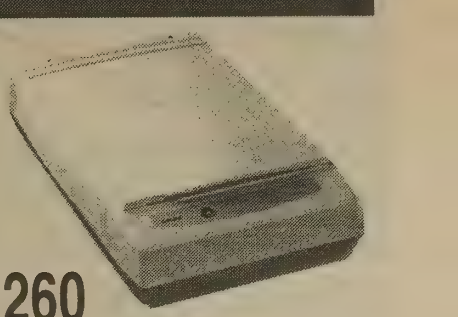

UC-1260

High Resolution Color Scanner

- Legal size scanning area
- 9600 dpi with Ultra-View Technology
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- Optional ADF and UTA

PC Software

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- Ultra View-interpolation software 9600dpi
- Kai's Power Tools SE
- SCSI card/cable
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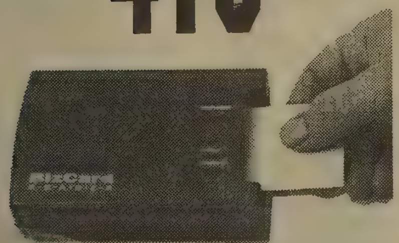

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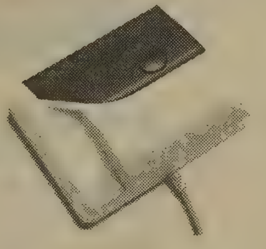

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- Image manager/browser
- OCR recognition
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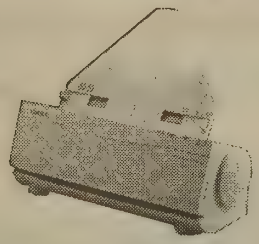

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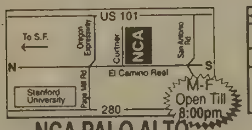

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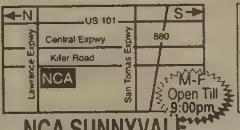

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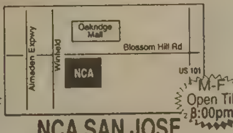

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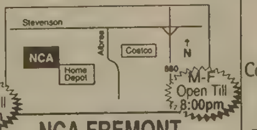

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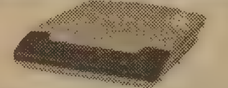

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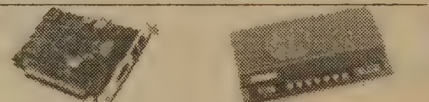

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Sportster 14.4 V.32/V.42 INTERNAL/EXTERNAL..........$\$95^{95}/\$109^{95}$

Sportster 28.8 V.34 INTERNAL/EXTERNAL..........$\$187^{95}/\$208^{95}$

Courier 28.8 V.34 INTERNAL/EXTERNAL..........$\$349^{95}/\$435^{95}$

28.8 V.34 PCMCIA Fax/Modem w/Data View....$\$357^{95}$ NEW!

Sportster 14.4 PCMCIA Fax/Modem ....$\$186^{95}$

Mac & Fax 14.4bps External modem for Mac ....$\$119^{95}$

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14.4 Internal Modem for PC (MC144HC)..........................$\$84^{95}$

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28.8 V.34 External Modem for PC (MC288MT) ....$\$238^{95}$

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Megahertz™

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28.8BPS PCMCIA FAX MODEM

NEW!

- •28.8bps. V.34/V.42bis
- •Auto Installation
- •Hot Insertion
- •Cellular Compatiblity
- •Includes XJACK,a retractable RJ11 connector that pops out to hook into a standard phone cord
- •Fax Software Included

INCLUDES XJACK

$\$399^{95}$

Supra Corporation™

SupraFAXModem

14,400 bps Fax, 14,400 bps Data/V.42bis / MNP5
57,600 bps throughput/ Class 1 Fax, Caller ID

UNLOCK THE WORLD OF DESKTOP COMMUNICATIONS™

EXPRESS

14.4 Plus Internal

PLUG & PLAY!

14.4 Fax/Modem for PC

Software Included:
COMit™ (Windows)
FaxTalk® (Windows)
CompuServe® Information Manager

$\$74^{95}$

14.4 Plus External

14.4 Fax/Modem for PC

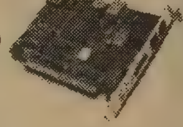
Software Included:
COMit™ (DOS & Windows)
WinFax Lite™ (Windows), FaxTalk® (DOS)
Cables & Manuals

$\$92^{95}$

28.8 Internal V.34

PLUG & PLAY

28.8 Data 14.4 Fax for PC



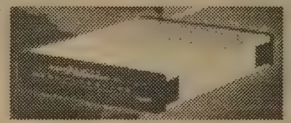
Software Included:
COMit™ (DOS & Windows)
WinFax Lite™ (Windows), FaxTalk® (DOS)
Cables & Manuals

$\$154^{95}$

External 28.8 for PC ....$\$169^{95}$

14.4 Ext. MAC

14.4 Fax/Modem for MAC



- •Top-Rated Data/Fax Software.
- •Easy to Install, Easy to Use.
- •Five Year Warranty
- •Cables and Manual

$\$99^{95}$

28.8 Ext. MAC V.34

The Fastest Modem for the MAC

28.8 Data/14.4FaxModem for MAC

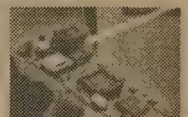
- •Software Included:
  Microphone LT, FAXcilitate™
  CompuServe Information Manager™
- •Cables and Manual.

NEW!

$\$219^{95}$

14.4PB Int. MAC

14.4 Fax/Modem for PowerBooks



- •14,400bps FAX/DATA
- •V.42bis/MNP 5 • 57,600 bps Max Throuput
- •Caller ID, SilentAnswer™
- •Works in PowerBook Models 100-180
- •Software Includes:
  °Microphone™ LT
  °FAXstf™, °Compuserve
  °Information Manger™, °ARA Scripts • Manuals

$\$194^{95}$

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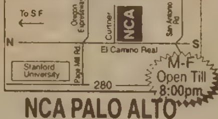

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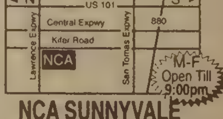

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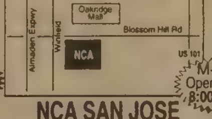

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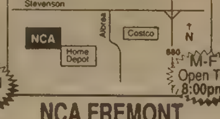

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COMMUNICATIONS

FAX/MODEMS

ISDN DIGITAL NETWORK

MOTOROLA

NEW! ISDN Terminal Adapter

- More than twice as fast as the fastest modem
- Access all Internet services at super speeds: over 70,000 bits per second every time
- Acts like a modem, looks like a modem, sets up as easily as a modem...but connects at ISDN speeds
- Simultaneous voice and data on a single ISDN line
- Download digital video clips, music, speeches, high resolution color photographs from the World Wide Web and other Internet services
- Send and receive massive data files fast: desktop publishing documents, spreadsheets, engineering data
- Play interactive games without annoying delays
- Everything you need for ISDN - built in NTI and ISDN line ordering codes
- Works with AT compatible software
- Easy to use and install

Windows '95 Ready

Includes Built-In NTI!

$399.95

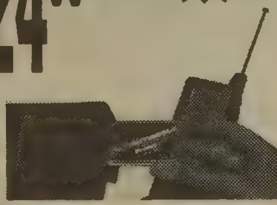
NEW! 14.4 PCMCIA Cellular Modem

- PCMCIA release 2.0 and above, Type II compliant
- Credit card size
- High speed fax modem
- Data rates - 14.4 kpbs to 300 bps; V.32bis, V.32, V.22bis, V.22, Bell 103
- Remote configuration
- V.42bis data compression protocol
- Hayes AT command set compatible
- Low power standby modes provide maximum battery life
- Send/receive faxes at 14.4, 12, 9.6, 7.2, 4.8, and 2.4 kbps
- Fully ITU Group III compatible
- Compliant with ITU and Bell standards to communicate with a large installed base of modems
- Allows configuration of unattended remote modems
- Increases throughput to up to 57,000 bps

* Direct connect to Motorola MC² cellular phones manufactured after 6/92

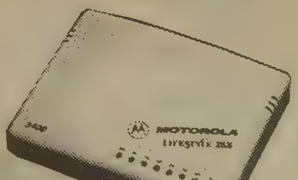
$224.95

No Cellular Adapter Required



NEW! 28.8 Data/Fax Modem

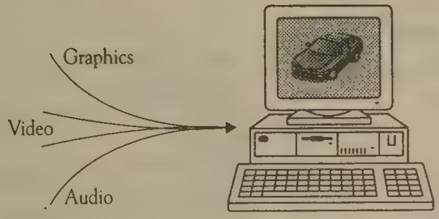
- Powered by Mototola 68356 24-bit data pump with RISC technology
- True ITU V.34 technology
- High speed data modem - 28,000 bps to 300 bps
- ITU V.34, V.32bis, V.22, V.23, V.21; Bell 212, 103
- High speed fax modem with error correction
- Fully ITU Group III compatible; compatible with all Class 1 fax software packages
- ITU V.42/V.42bis and MNP 2-5 error correction and date compression
- Automatic rate adaption - adjusts the speed up or down for line conditions
- Caller ID, password, callback security and help screen functions
- Hayes compatible commands
- RS232 cable included for MAC version
- No more fuzzy faxes with Clear Fax™
- Asyncronous data rates up to 115,200 bps result in savings on line charges
- Error-free data transfer provides optimum throughput and performance
- Maximizes speed and minimizes errors for the most economical and error-free connection possiblae
- Identifies a caller before you answer the phone with a distinctive ring
- Can record who called while you were out
- Prevent unauthorized connections - supports 2 user defined passwords, and 2 callback numbers
- Online help provides quick command reference with search capability
- Conveneint modem configuration from your keyboard



PC INTERNAL	PC EXTERNAL	MAC EXTERNAL
$185.95	$199.95	$214.95

PACIFIC BELL FASTRAK℠ ISDN

Fast and Fun Access to the Internet



Pacific Bell *FasTrak ISDN* allows you to access the Internet ***faster than any modem.*** ISDN gives you graphics in an instant—you no longer have to wait for Web pages to download slowly over an analog modem. You are up to speed with ISDN: See NCA to order your Pacific Bell *ISDN*, or call 1-800-4PB-ISDN.

Technology ISDN BRI		
Product	**Monthly**	**Installation**
ISDN Single line ISDN for business includes one metered business line	$24.82 plus usage/ $26.04 if multiple lines	$70.75 for one metered business line[1]
Home ISDN Single line ISDN for home	$24.50 plus usage[2]	$34.75 for one metered residence line[1]

[1] $125 ISDN installation fee waived for a two-year service period.

[2] Usage charged between 8 a.m. – 5 p.m., Monday through Friday.

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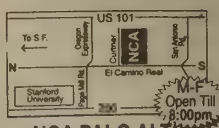

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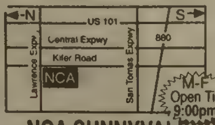

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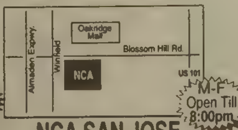

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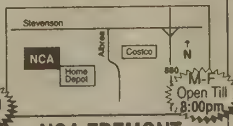

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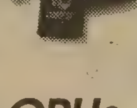
intel.CPUs



486DX-33MHz
486DX2-50MHz
486DX2-66MHz
486DX4-100MHz
Pentium 60MHz
Pentium 66MHz
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Pentium 100MHz

intel inside
pentium PROCESSOR

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1MBX9	80ns	3Chip	$Call
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1MBX9	70ns	3Chip	$Call
1MBX9	70ns	9Chip	$Call
1MBX9	60ns	3Chip	$Call
1MBX9	60ns	9Chip	$Call
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4MBX9	70ns	3Chip	$Call
4MBX9	70ns	5Chip	$Call
4MBX9	70ns	9Chip	$Call
4MBX9	60ns	9Chip	$Call
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2MB 604-70ns/60ns	$Call
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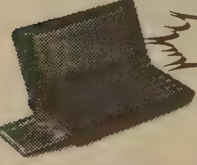
PCMCIA

FlashCard

PCMCIA Mass Storage For Mobile Computers



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☐ GRiD Convertible 386/486

KIT INCLUDES:
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2.6MB FlashCard Kit	$259
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☐ EO Personal Com. 440/880
☐ NCR 3170 Safari*

FlashCard Only, No Software Needed
* Kit Includes FlashCard & Software

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10.4MB FlashCard	$459
20MB FlashCard	$799

Macintosh

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1MBX8	70ns	2Chip	$Call
1MBX8	70ns	8Chip	$Call
2MBX8	80ns	2Chip	$Call
4MBX8	80ns	8Chip	$Call
4MBX8	70ns	8Chip	$Call
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32-Bit for Quadra 800, Centris, LCIII & Power PC's

2MB Module	$Call
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(excluding Powerbooks)

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6MB Module (160/180)	$Call
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0MB	$39
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8X8-20ns	$Call
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32X8-15ns	$Call
64X8-20ns	$Call
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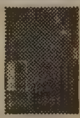

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MGI-486: 486VLB $119

2-VLB Slots, 256K Cache (up to 512K)
0MB up to 64MB RAM uses 30pin & 72pin SIMMS
Green PC, ZIF Socket, SIS Chipset, Award BIOS

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2 Enhanced IDE on Local Bus, 3 PCI slots, 5 ISA Slots 256K Cache, 0MB up to 128MB RAM
Uses 72pin Simms, Green PC, ZIF Socket, SIS Chipset, Award BIOS

MPXS-486: 486PCI $149

NEW!
2 EIDE-I/O, 3 PCI slots, 5 ISA Slots, 256K Cache, 0MB up to 128MB RAM uses 72pin Simms, Green PC, ZIF Socket, SIS Chipset, Award BIOS

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3 PCI, 5 ISA slots 256K Cache up to 1MB, 0MB up to 128MB RAM uses 72pin Simms
ZIF Socket, SIS Chipset, Award BIOS, GREEN PC

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NEW!
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3 PCI, 5 ISA slots 256K Cache up to 1MB, 0MB up to 128MB RAM uses 72pin Simms
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3 PCI, 5 ISA slots 256K Cache up to 1MB, 0MB up to 128MB RAM uses 72pin Simms
ZIF Socket, Award BIOS, GREEN PC

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- Neptune Chipset
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- Uses 72-pin SIMMS
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- INTEGRATED EIDE-I/O
- TRITON Chipset
- 256K Cache
- 0MB UP TO 128MB
- ZIF Socket
- Uses 72-Pin SIMMS
- 3-PCI Slots

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With Pipeline Burst SRAM Cache

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- 256K Cache
- 0MB UP TO 128MB
- Integrated Vibra 16S Audio Controller
- Flash BIOS

NEW!
CPU Sold seperately

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Triton Chipset

- 3-PCI SLOTS
- Triton chipset
- 256K CACHE
- 0MB EXP. TO 128MB RAM
- ZIF SOCKET
- USES 72 PIN SIMMS
- INTEGRATED EIDE-I/O

CPU Sold seperately

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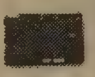


- 3-PCI SLOTS • 256K CACHE
- 0MB EXP. TO 64MB RAM
- ZIF SOCKET
- UMC CHIPSET
- INTEGRATED EIDE I/O
- USES 72 PIN SIMMS
- AMI BIOS

CPU Sold seperately

NCA's High Quality PCI

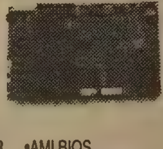
486DX-PCI $125

- 3 PCI SLOTS
- INTEGRATED EIDE-I/O
- 256K CACHE • 0MB EXP. TO 64MB RAM
- ZIF SOCKET • BIOTEQ CHIPSET
- USES 72 PIN SIMMS
- AMI BIOS • SUPPORTS DX4

CPU Sold seperately

NCA's Premier/VLB

486DX-VESA LOCAL BUS $109



CPU Sold seperately

- 3 VESA LOCAL BUS SLOTS
- 256K CACHE
- 0MB EXP. TO 64MB RAM
- ZIF SOCKE
- VMC CHIPSET
- USES 30 PIN OR 72 PIN SIMMS
- AMI BIOS
- SUPPORTS DX4

128K CACHE VERSION	$85
0K CACHE VERSION	$65

NCA's Premier

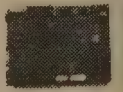
PCI PENTIUM™75/90/100/120/133 $299

- 256K Cache UP TO 1MB
- 3 PCI slots, 5 ISA slots
- 72 pin SIMMs (up to 128MB)
- ISA IDE port (2 IDE devices)
- ISA Floppy port (2.88MB supports)
- 2 high speed 16550 serial ports
- 1 ECP/EPP parallel port

Integrated Adaptec 2940 SCSI-2
CPU Sold seperately

NexGen™90MHZ-BASED 586 MOTHERBOARD with RISC CPU $299

Comparable performance to Pentium™90MHz-based PC's



- 256K Cache
- 2 VLB slots, 5 ISA slots
- Six 72 pin SIMMs slots
- Up to 192 MB DRAM on mptherboard
- AMI BIOS
- AlarisVL motherboard
- On-board L2 write-back cache controller
- RISC86™microarchitecture (NexGen™Nx586™P90 processor)

NCA's High Quality

PCI/VLB Pentium™ 75/90/100MHz $155

- 256K Cache
- 4 PCI slots
- OPTI Chip Set
- ZIF Socket
- Uses 72-Pin Simms
- Green PC

CPU Sold seperately

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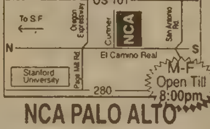

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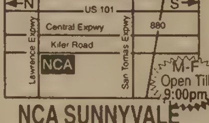
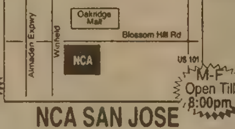


NCA SUNNYVALE
1202 KIFER RD. (Lawrence Expway & Kifer)
Mon-Fri: 9am-9pm; Sat 9am-8pm,Sun 10am-7pm
(408) 739-9010 Fax (408) 739-2420



NCA SAN JOSE
962 Blossom Hill Rd. (Across Oakridge Mall)
Mon-Fri: 10am-8pm; Sat & Sun 10am-7pm
(408) 363-4600 Fax (408) 363-4610

Stevenson
NCA
Home Depot
Albrae
Costco
N
880
M-F Open Till 8:00pm

NCA FREMONT
40521 Albrae St. (Next to HOME DEPOT)
Mon-Fri: 10am-8pm; Sat & Sun 10am-7pm
(510) 249-0850 Fax (510) 249-0855

NCA CORPORATE
Corporate, Dealer, Government, Educational, & International:
(408) 522-8672
P.O. FAX(408) 739-2420

MAIL ORDER DEPT.
Call (1-800) NCA-1115

* "LOWEST PRICE GUARANTEED" OFFER applies only to items which are in stock at an authorized local retailer and NCA on exact same item in retail packaging. Not valid for one of a kind, clearance or limited quantity offers, or on bonus or free offer items. NCA reserves the right to limit quantities on all products. Item must be advertised in a local publication in a non-classified ad.

Online Guide

Web Page Listings

continued from page 116

Science Fiction Now *http://www.science-fiction.com/* Buy, sell, and rate the science fiction stories from around the country and the globe. [Exp. #146.]

Serenity *http://www.tecnation.com/serenity/* [Exp. #144.]

Solomon Speaks *http://pages.prodigy.com/CA/momonk/Solomon.html* Free WWW service kind of like "Dear Abby" or "Ann Landers." [Exp. #145.]

Sports World Internet *http://www.sportsworld.com/sports/home.html* Live Sports Chat, $1000 contest, fantasy Football League, user articles. Sports experts and novices welcome. [Exp. #144.]

Susan Sutton Trio Home Page *http://ocf.berkeley.edu/~daaron/trio.html* The home page of the Susan Sutton Trio, a progressive and upbeat Latin-inspired jazz band in the North Bay. [Exp. #145.]

Topanga Canyon Rotisserie League *http://bcf.usc.edu/~kbrennan/index.html* Follow the fantasy baseball league here, complete stats, transactions, plus hotlinks to numerous baseball sites. [Exp. #145.]

UNCAT: The Catalog Of UNCATaloged Titles *http://www.sapphire.com/UNCAT/* Brochures, books, catalogs, newsletters, videocassettes, and audio cassettes not generally available in a bookstore or library. [Exp. #143.]

Venice Beach, California *http://www.mediaonline.com/bizads/venicebeach.html* Celebrate Venice's 90th anniversary in this art community including fitness events in world-famous Muscle Beach. [Exp. #144.]

Videomaker's Camcorder & Desktop Video *http://www.videomaker.com* High-quality, up-to-date information on video production and distribution; working to democratize and enrich television. [Exp. #141.]

Virtual Vegas *http://www.virtualvegas.com* Virtual Vegas brings fun, entertainment, contests, prizes, and more. You can virtually gamble here—stay tuned! [Exp. #141.]

Virtual Vineyards *http://www.virtualvin.com* Learn about the delights of great wine, discover your wine tastes, buy carefully selected wines. [Exp. #141.]

Voyager Company *http://www.voyagerco.com* Laurie Anderson, the *Paris Review*, the Guerrilla Girls, monthly opinion feature; demos, simulations from Voyager products. [Exp. #142.]

Wave Action Surf Magazine *http://www.waveaction.com/mag* Surfing from around the globe featuring photos of some of the world's best new school surfers captured by industry photographers. [Exp. #144.]

Welcome To WOL On The Web *http://www.cris.com/WOL* The home of *Windows OnLine* and the *WinOnLine Review* (online magazines) commercial and shareware reviews. [Exp. #146.]

World Conquest *http://dnai.com/~conquest* Popular two- to twelve-player wargame (WWII) w/GUI (shareware), hourly turn processing. [Exp. #146.]

World Square *http://www.w2.com* "Virtual mall" with companies doing business in music, art, publishing, food, finance, automobiles, heath, and medicine. [Exp. #142.]

XCENTRIX *http://www.servtech.com/public/sproing* An eclectic zine integrating a plethora of genres including art, music, fashion, gossip, drag queens, and more. [Exp. #146.]

XROADS *http://xroads.wr.usgs.gov/Welcome.html* Links to US Geological Survey Web sites. A way to learn about earth science and the USGS. [Exp. #143.]

Z Times *http://www.lh.com/z* National Association of Broadcasters 95 show report, St. Stupid Day Parade in San Francisco, links to unusual sites. [Exp. #142.]

ORGANIZATIONS

American Bar Association *http://www.abanet.org* General facts and resources on the law, continuing legal education courses and requirements, ABA info. [Exp. #141.]

American Communications Association *http://www.uark.edu/depts/comminfo/www/ACA.html* For those interested in communication research, communication law, freedom of information, free speech, First Amendment. [Exp. #141.]

American Sightseeing International *http://www.sightseeing.com/* ASI, a global association of tour companies, offers worldwide tourism information. Email: *info@sightseeing.com*. [Exp. #145.]

Art & Artist Network *http://voyager.via.net/netbiz/artist.html* International directory of artists, art galleries, and art-related services. [Exp. #141.]

ASSE—Greater San Jose Chapter *http://www.best.com/~assegsjc* Information, links on environmental, safety, and health issues and the American Society of Safety Engineers. [Exp. #145.]

Bay Area Volunteer Information Center *http://www.meer.net/users/taylor/* Lists hundreds of volunteer opportunities with San Francisco Bay Area nonprofit organizations. [Exp. #145.]

California Association Of Residential Care Homes *http://www.hooked.net/users/rallap/index.html* Nonprofit association of care providers, current list of vacancies in Santa Clara County, referrals. [Exp. #143.]

CERA Research *http://www.cera.com* Web site for embedded systems engineers and programmers, includes Electronic Engineer's Internet, 1995 report on engineers and programmers on the Net. [Exp. #145.]

Creative Learning Stroke Support Site On The Web *http://www.tpoint.net/creative/* Creative Learning publishes multimedia software to help rehabilitate language after a stroke or other neurological impairment. [Exp. #145.]

Cupid's Network, Inc. *http://www.cupidnet.com/cupid* Network of singles organizations, dating services, matchmakers, and personal ads. Many ads from women. [Exp. #145.]

De Anza College *http://www.deanza.fhda.edu/* De Anza College programs, services, community events, class schedules, and much more to explore! [Exp. #145.]

Greenbelt Alliance *http://www.greenbelt.org/gba* Everything about the Bay Area's greenbelt of open space: maps, outings, issues, factsheets. Fight urban sprawl! [Exp. #143.]

Greenpeace Climate Homepage *http://www.greenpeace.org/* Berlin Climate Summit info, FAQ on climate change, links to other climate info on the Net, more. [Exp. #141.]

History Computerization Project *http://www.history.la.ca.us/history* This Project includes: request forms for a free History Database tutorial, photos on display, and directories of historical resources. [Exp. #144.]

Impact Online *http://www.internex.net/impact* Interactive access to nonprofit organizations, topical issues, and information on a range of social issues. [Exp. #142.]

International Food Information Council *http://ificinfo.health.org* or *gopher://ificinfo.health.org* The International Food Information Council (IFIC) Foundation offers up-to-date facts on food safety and nutrition. [Exp. #144.]

International Netsuke Kenkyukai Society *http://www.hooked.net:80/users/yukiyama/* Information on Netsuke Kenkyukai Society and collecting netsuke (Japanese antique toggles). [Exp. #141.]

International Paperweight Society *http://www.armory.com/~larry/lps.html* *A non-profit organization dedicated to furthering the awareness of fine glass paperweights. A Mecca of information. [Exp. #142.]*

Japan Summer Program *http://www.kaiwan.com/~stussy/japan95/japan11.html* Information about studying photography or the Japanese language in Japan during the summer of 1995. [Exp. #142.]

Karma Kagyu Buddhist Cyber Center *http://144.92.74.130* Introducing Karma Kagyu lineage of Tibetan Buddhism, main teachers, teaching and meditation schedules, presenting quarterly magazine. [Exp. #142.]

LatinoWeb *http://www.catalog.com/favision/latnoweb.htm* Provides a platform for Latino organizations to make their information available to the Internet. [Exp. #141.]

Napa Valley PC Users Group *http://community.net/~stevefc/index.html* The home page for the Napa Valley PC Users Group. [Exp. #141.]

National Air And Space Museum *http://www.nasm.edu* Research resources, learning materials; info; event calendar; museum tour; Center for Earth and Planetary Studies; more. [Exp. #145.]

Navy Engineering Field Division Environmental Department *http://ivory.nosc.mil/~saundel/default.html* Environmental Dept. Web Page provides information about Navy and Marine Corps installations whose environmental cleanup programs are managed by Southwest Division. [Exp. #145.]

OCSUG Home Page *http://halide.acs.uci.edu/* Home page of the Orange County Sun User Group. [Exp. #143.]

Pacific Lutheran University *http://www.cs.plu.edu/tour/tour.html* A virtual tour of Pacific Lutheran University's campus is as close as your computer screen. [Exp. #145.]

Podiatric Medicine And Surgery Network *http://www.aimnet.com/~rwunder/podmet.htm* Information for studying and practicing podiatrists, geared toward The California College of Podiatric Medicine. [Exp. #145.]

SK Writers Home Page *http://www.skwriters.com* A placement agency specializing in technical pubs, marcom, and training professionals. [Exp. #141.]

Spectrum Virtual University *http://www.pacificnet.net/~spectrum/campus* Progressive "virtual university" offers free classes via the Internet on subjects from mainstream to alternative. [Exp. #145.]

Stanford University Bechtel International Center *http://fugi.Stanford.edu/icenter/icenter.html* Programs and services offered by I-Center for Int'l. students/scholars, families, and students who want to travel abroad. [Exp. #141.]

U.S. Navy Recruiting Command *http://www.navyjobs.com* Browse through selected topics, including Jobs in the Fleet, Medical Jobs, Worldwide Travel, and Benefits. [Exp. #145.]

West Coast Online *http://www.wco.com/* West Coast Online's home page. [Exp. #145.]

PERSONAL HOME PAGES

April's Cell Tech Page *http://www.calypso.com/april* A great location to visit to learn more about Health and Wealth Opportunities with Super Blue Green Algae. [Exp. #146.]

AYL Home Page *http://www.aimnet.com/~ayl/homey.htm* A home page full of exciting links to unique places and great invest opportunities. [Exp. #145.]

Bob Bickford *http://www.well.com/Community/rab/index.html* The still-evolving home page of a Professional Wild-Eyed Visionary. [Exp. #145.]

Cindy's Home Page *http://www.pacificnet.net/~roncin* [Exp. #145.]

Doug Michael Home Page

Web Page Listings *continued...*

http://www.ccnet.com/~dmic27 This site deals with original music by composer Doug Michael and includes sound samples, release info, and cool music links. [Exp. #146.]

Douglas's Home Page *http://www.primenet.com/~douglask/* If you are interested in probation or X-Ray technology leave a note here. Links to many legal sources. [Exp. #145.]

Garden Songs *http://www.geopages.com/Paris/1416/soos.html* Poetry by SOOS (Strong Opinions On Success). [Exp. #146.]

Greg's Point Reyes Wild Life Home Page *http://users.aimnet.com/~winter/ptreyes.htm* Wild life that can be seen at or near the Point Reyes National Seashore in Northern California. [Exp. #146.]

Healthy Flying *http://galaxy.einet.net:80/galaxy/Leisure-and-Recreation/Travel/diana-fairechild/healthy.html* Info about jet lag, healthy flying, and other air travel-related issues. [Exp. #145.]

Home Page Of Robert Capps *http://www.ccnet.com/~rc* An ever-changing collection of cool links and information on setting up your own home page. [Exp. #145.]

Hypnotherapy By Rosa Kitchen *http://www.he.tdl.com/~kitchen* Calm, calmer, calmest. Develop a solid, unshakable personal power. Heal from within through hypnosis. [Exp. #143.]

I'll Have Some Fries With Those Beastie Boys *http://www.hooked.net/users/Clayton* Save Mumia Abu-Jamal, Beastie Boys, Aeon Flux, Burrito, Pulp Fiction, personal bio. [Exp. #146.]

Jeff's Homepage—The Quam *http://www.emf.net/~quam* Jeff's Homepage and link to the Pirate Squid Club. Lots of useless nonsense. [Exp. #141.]

Joyous Guard *http://www.deltanet.com/users/roy/home.html* Links to a variety of interesting sites: adult, hacking, movies, music, philosophy, sci-fi, and indices. [Exp. #145.]

Lynda Williams Home Page *http://www.physics.sfsu.edu/grad/lwilliam/lwilliam.html* Physics graduate student by day, cabaret performer by night, Lynda Williams calls herself a "Science Entertainer." [Exp. #145.]

Mark Holt's Home Page *http://www.sun.com/sunsoft/cdware/mark.html* Sun Microsystems and Solaris links, interview with Yahoo creators, and other cool links. Updated weekly! [Exp. #145.]

Mike Russ's HomePage *http://www.primenet.com/~laurus* Tons of cool stuff with the Web's most complete list of why some people should die. [Exp. #145.]

Mishworld *http://www.earthlink.net/~mish* Harmful nonsense, links to strange things, poetry, and other fun but useless information. [Exp. #146.]

Myers Information Services *http://www.weight.com* Information on weight control and eating disorders written for the layman by a physician that treats both. [Exp. #146.]

Nabeel Ibrahim's Home Page *http://www-leland.stanford.edu/~ibrahim* Take the EE Purity Test! [Exp. #146.]

Ramsey Ksar Home Page *http://pandora.library.ucsb.edu/~ramsey* An innovative personal home page with great links, my resume center, and a short bio. [Exp. #146.]

Robert Altman's Classic Rock Photography And What Not Shop *http://www.cea.edu/robert/* Altman's shooting life: Janis Joplin, the Stones, Jim Morrison; portraits/stories of Joe Montana, Groucho Marx. [Exp. #145.]

RVL Sci-Fi HomePage *http://www.csun.edu/~hbcsc093/rvl.html* Links to many science fiction sites, 3-D computer graphics and raytracing, and some other cool stuff... [Exp. #145.]

Steve's Hot Stuff! *http://www.sonic.net/~stephen/* Places to explore, useful links for finding helper apps, freeware, and shareware. User Group info. [Exp. #144.]

Tom Curtis's "Wide World Of Art" *http://www.slip.net/~tommy999* Evolving art-based home page including: multimedia, galleries, museums, sound, video, and public and personal art sites. [Exp. #142.]

POLITICAL/SOCIAL

6th International Conference On Computers In Agriculture *http://www.agen.ufl.edu/~fzazueta/* Conference, in Cancun, Mexico, June 11–14, 1996, will provide a forum for agriculture related professionals to exchange information on applications and developments in the use of computers in agriculture. [Exp. #146.]

African Connections *http://www.melanet.com/melanet/connections* The Web site contains information on the *African Connection* TV series, a listing of available programming, forms for online feedback, news, and links to related organizations. [Exp. #145.]

American Association Of University Presses *http://aaup.pupress.princeton.edu:70/* Offers online catalogue of over forty-nine thousand scholarly books in print at university presses. [Exp. #146.]

Bacard's Privacy Page *http://www.well.com/user/abacard* Author Andre Bacard provides practical documents and links to protect your computer privacy. [Exp. #145.]

Berkeley-East Bay Humane Society *http://www.ccnet.com/~bebhs* Photo tour and information about our animal shelter and veterinary hospital. (Netscape 1.1 recommended.) [Exp. #146.]

Burlingame On-Line *http://www.spectrumnet.com/burlingame.html* Burlingame On-Line provides news, information, and shopping for the city of Burlingame and surrounding communities. [Exp. #146.]

Burlingame On-Line PEZ Page *http://www.spectrumnet.com/paz/* Largest display of PEZ dispensers on the West Coast, includes history, facts, and PEZ store. [Exp. #146.]

California Libertarian Party *http://www.lp.org/lp/ca/lpc.html* Alternative politics for the golden state. [Exp. #145.]

Capnet Gateway On-Line Service *http://turnpike.net/emporium/C/CAPNET/health.htm* An Internet resource center for information regarding Healthcare and Humanity. [Exp. #146.]

Chabot Observatory And Science Center *http://ousd. k12.ca.us/COSC/Chabot.html* Located at 4917 Mountain Blvd. in Oakland near Hwy. 580/13 interchange. [Exp. #146.]

Charlotte's Web—Government Reform Resources *http://www.emf.net/~cr* Links to government and citizen activist groups; ftp-able grassroots essays, articles; National Debt updates. [Exp. #145.]

Child Safety Forum *http://www.xmission.com/~gastown/safe* Provides safety information that may save your child's life or prevent a serious injury. Each month features child safety tips for a different room of the house. [Exp. #146.]

Chile Guide *http://sunsite.dcc.uchile.cl/~mvasquez/chile/index.html* Chile Guide is a page where you can find all about Chile. [Exp. #146.]

The Computer History Association Of California *http://www.chac.org/chac/* An introduction to the CHAC, includes ftp of all issues in plain text, links to other computer history pages, and more. [Exp. #146.]

County Of Orange *http://www.oc.ca.gov* Information on the Orange County board of supervisors, meetings, and press releases. [Exp. #142.]

Cuba WWW *http://www.unipr.it/~davide/cuba/home.html* Country information, maps, WWW sites, Gopher sites, mail, news, tourism, and more. [Exp. #146.]

CyberKorea *http://165.113.175.2* Intro to CyberKorea, Korean Web directories for news, Internet providers, and other sites. Short Korean lessons (coming soon). [Exp. #146.]

CyberLaw *http://www.portal.com/~cyberlaw/* Educational service on computer law for computer users published monthly, including CyberLaw and CyberLex archive. [Exp. #141.]

Democratic National Committee *http://www.earthlink.net:80/~cid/ccri/* Find out about the state's Democratic committee based in Los Angeles. This site also lists events and provides links to local Democratic Party organizations around the country. [Exp. #145.]

Democratic Party Home Page *http://www.webcom.com/~digitals* A place to find information on Democratic officials, organizations, and candidates. [Exp. #141.]

Digital Freedom Network *http://www.iia.org/dfn/* Circumventing censorship of published material by posting the works on the Internet. [Exp. #143.]

The Economist *http://www.earthlink.net/~theeconomist* Read issues of local interest compiled by the Los Angeles bureau of *The Economist* magazine. [Exp. #146.]

First Internet McChurch Tabernacle *http://mcchurch.org/mcdonna* At the hub, the core, the virtual beating heart of the WWW. [Exp. #145.]

Garden Of Remembrance *http://www.islandnet.com/~deathnet/garden.html* A way for a family member or friend to be immortalized in cyberspace with a multimedia obituary. [Exp. #145.]

Girvies Davis Home Page *http://www.mcs.net/~bkmurph/girvies.htm* Home page of Girvies Davis, Illinois death row inmate. Clemency petition, articles, "evidence", pictures, audio, more. [Exp. #142.]

Global Futures Foundation *http://www.quiknet.com/globalff/globalfu.html* Environmental Web site for businesses, with publications and Future 500 CEO resource efficiency roundtable. [Exp. #145.]

Global Ideas Bank *http://newciv.org/worldtrans/BOV/BOVTOP.HTML* International suggestion box for ideas or projects for improving the quality of life. Annual award. [Exp. #145.]

Golden Retrievers In Cyberspace *http://www.rahul.net/hredlus/golden.html* Information on Golden Retrievers: how to find breeders, rescue groups, GRCA, and more. [Exp. #144.]

Grant Tracker Home Page *http://www.rahul.net/kendric* Software that keeps researchers from overspending their research grants. Download demos: DOS, Win, Mac. [Exp. #141.]

Henry Ford Museum Online *http://hfm.umd.umich.edu* Provides users with historical content and programs. Highlights include "The Automobile in American Life," "Made in America," and Presidential limo exhibits. [Exp. #146.]

Institute For Global Communications Progressive Directory *http://www.igc.apc.org* [Exp. #145.]

Institute Of Heartmath *http://www.webcom.com/~hrtmath/IHM/AboutHM.html* Research-based training for developing enhanced intuitive intelligence to successfully manage mental and emotional choices. [Exp. #144.]

Interactivist *http://199.172.178.200* A place that facilitates Internet social education and activism. Also the home of Free Burma. [Exp. #141.]

Internet Health Resources *http://www.ihr.com* Extensive and practical health resource information for Internet users. [Exp. #142.]

Islamic Server Of MSA-USC *http://www.usc.edu/dept/MSA/* Contains information on Islam,

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TOP DATA MONTHLY SPECIALS

SYSTEM	M/B +CPU	BASIC SYSTEM	BASIC SYS 170MB HDD 14" MONO	BASIC SYSw/4MB 170MB HDD 14" SVGA	BASIC SYSw/4MB 540MB HDD 14" SVGA	BASIC SYS+8MB 850MB HDD 14" SVGA	BASIC SYS+8MB 1.2GB HDD 14" SVGA
Dual P5 100/256C PCI	1,379	1,539*	1,779	2,049	2,089	2,309	2,429
P5-133/256C PCI Intel Endeavor	999	1,159*	1,399	1,669	1,709	1,929	2,049
P5-120/256C PCI Intel Endeavor	889	1,049*	1,289	1,559	1,599	1,819	1,939
P5-100/256C PCI Intel Endeavor	699	859*	1,099	1,369	1,409	1,629	1,749
P5-133/256C PCI Intel Zappa	919	1,079*	1,319	1,589	1,629	1,849	1,969
P5-120/256C PCI Intel Zappa	799	959*	1,199	1,469	1,509	1,729	1,849
P5-100/256C PCI Intel Zappa	619	779*	1,019	1,289	1,329	1,549	1,669
P5-100/256C PCI Intel Premiere	559	719*	959	1,229	1,269	1,489	1,609
P5-90/256C PCI Intel Premiere	459	619*	859	1,129	1,169	1,389	1,509
P5-133/256C PCI W/Enh IDE & IO	849	1,009*	1,249	1,519	1,559	1,779	1,899
P5-120/256C PCI W/Enh IDE & IO	739	899*	1,139	1,409	1,449	1,669	1,789
P5-100/256C PCI W/Enh IDE & IO	559	719*	959	1,229	1,269	1,489	1,609
P5-90/256C PCI W/Enh IDE & IO	439	599*	839	1,109	1,149	1,369	1,489
Nx586-P90/256C	399	559	799	1,069	1,109	1,329	1,449
P5-66C PCI W/Enh IDE & IO	339	499*	739	1,009	1,049	1,269	1,389
486DX4-100C PCI W/Enh IDE & IO	259	419	659	929	969	1,189	1,309
486DX4-100C VLB	179	339	579	849	899	1,109	1,229
486DX2-80C VLB	149	309	549	819	859	1,079	1,199
486DX2-66C VLB	139	299	539	809	849	1,069	1,189
486SX2-66C VLB	119	279	519	789	829	1,049	1,169
486BL-75C VLB IBM M/B	159	319	559	829	869	1,089	1,209
486SLC2-66C VLB IBM M/B	119	279	519	789	829	1,049	1,169
486SLC2-50C ISA [illegible]	99	259	499	769	809	1,029	1,149
486SLC33 ISA	69	229	469	739	779	999	1,119
386SX40 ISA [illegible]	59	219	459	729	769	989	1,109

BASIC SYSTEM: MB W/CPU. 1MB MEMORY. SUPER IDE. 1.44MB FD. MINI TOWER W/230W PS & KB.

TOP DATA
Multimedia Systems

- Motherboard with CPU 256K
- 8MB RAM
- PCI or VLb IDE Cntlr w/2s1p
- 420MB Enh. IDE HD
- Teac 1.44MB 3.5" FD
- PCI or VLB SVGA Card w/1mb
- 14" SVGA .28ni Color Monitor
- Double-Speed IDE CD-ROM
- 16Bit Sound Card & Speakers
- Mini Tower with Power Supply
- Serial Mouse w/Pad
- Microsoft DOS & Windows
- CD Bundle(6 titles 3CD)

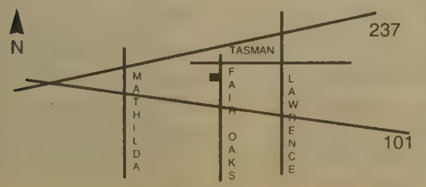
P5-133 PCI Intel Zappa..$2329
P5-120 PCI Intel Zappa..$2079
P5-133 PCI............$2129
P5-120 PCI............$1879
P5-100 PCI............$1579
P5-90 PCI.............$1479
P5-66 PCI.............$1419
486DX4-100 PCI...$1359
486DX4-100 VLB..$1199
486DX2-80 VLB....$1179
486DX2-66 VLB....$1159
IBM 486BL75VLB.$1169

UPGRADES

- Memory Upgrade........$call
- 850MB/1.2GB HD.....Add $70/$150
- 15"/17" Monitor.......Add $100/$380
- 14.4/28.8K......Add $50/100
- Quad-Speed CDROM Add $90
- MS Office Pro4.3(OEM) Add...$320

MONITORS

ACER
14" 34T 1024NI .28 VESA/EPA...239
15" 56L 1280NI .28 VESA/EPA...349
17" 76i 1280NI .27 VESA/EPA....649
CTX
1451/1562/1765GM........229/329/659
KFC
14" .39I/.28I/.28NI...........189/219/229
15" 1511/1507w/digital 309/359
MAG
15", MX/DF15F.....................459/379
17", MS/MX/DS 17F........899/849/679
NANAO
15", F340IW, 1024X768 72Hz..... 639
17", F550IW, 1280X1024 .28.......929
17", T560IW/T560I...........1,159/1,389
20", T660I/T220................1,835/1989
F560IW/F760IW...............1199/1,899
NEC
XE15/17/21...................529/949/1989
XP15/17/21.................679/1249/2499
SONY
15SF1/17SF1/20SE1......439/889/1879
VIEWSONIC
15", 15/15E/15EX............429/319/339
17", 17/17E/17G..............799/699/729
20", 20/20G........................1459/1359
21", 21...1699



VIDEO CARDS

SVGA -256K/512K/1MB........... 29/49/69
S3-805 1MB VLB/PCI..................89/119
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Web Page Listings *continued...*

including several large reference works. [Exp. #146.]

Libertarian Party Of America *http://www.lp.org/lp/* America's Third Party. [Exp. #145.]

Los Angeles County Museum Of Art *http://www.lacma.org* Largest museum west of the Mississippi is online. Come and see the art. [Exp. #146.]

NAAFA Online *http://world.std.com/~naafa* National Association to Advance Fat-Acceptance. Promoting wellness and combating prejudice against fat people. [Exp. #146.]

NASA Office Of Space Science *http://www.hq.nasa.gov/office/oss* The NASA Headquarters Office of Space Sciences provides information and links to Space Science sites. [Exp. #146.]

New Civilization Network *http://newciv.org/worldtrans/newcivnet.html* "To make the world a better place." Free space for many nonprofits. [Exp. #145.]

Oceania, The Atlantis Project *http://ocenia.org* Want to talk about forming a new country? Come visit us. [Exp. #145.]

Old Town Pasadena *http://www.earthlink.net/~jescala/oldtown.htm* A comprehensive guide to the night life of Old Town Pasadena, with reviews of bars, pool hall, and clubs. [Exp. #146.]

OSU Government Information Sharing Project *http://govinfo.kerr.orst.edu/* Funded by the U.S. Dept. of Education, this site provides access to detailed population and agricultural statistics for Northwest states. [Exp. #146.]

ParentsPlace.Com *http://www.parentsplace.com/* The parenting resource center on the Web: reading rooms, chat, shopping mall with parenting and child-care products. [Exp. #146.]

People Who Care *http://www.people-who-care/people* HIV programs, community organizations, job training, homeless care, counseling, cultural activities at St. Paulus. [Exp. #146.]

PETA *http://environlink.org/arra/peta/indes/html* PETA, People for the Ethical Treatment of Animals, online includes factsheets, updates, membership info, a list of cruelty-free companies, and other resources. [Exp. #146.]

Phil Gramm For President Campaign *http://www.gramm96.org* Speeches and articles from the campaign trail intermixed with graphics, audio and video clips, and more. [Exp. #143.]

Portola Views *http://www.primenet.com/~martonj* Portola Hills Community Bulletin Board, providing event, activities, and neighborhood interface with a virtual Town Hall. [Exp. #146.]

Qui Tam Information Center *http://www.quitam.com* A place for whistleblowers and attorneys to gain information in pursuing qui tam actions. [Exp. #145.]

Remembering Nagasaki *http://www.exploratorium.edu/nagasaki* A WWW page and Internet Exhibit at the Exploratorium as part of the world's observance of the 50th anniversary of the bombings of Hiroshima and Nagasaki. [Exp. #145.]

Rivendel Pages *http://umbc8.umbc.edu/akhatt1/Rivendel.html* Multiuser chat sites dedicated to communications for global understanding and creative expression. Come visit us. [Exp. #142.]

Salvador Dali Museum *http://www.highway.com/dali/* Features lots of cool Dali images, including flies and melting clocks, and explains how the museum got to be located in St. Petersburg. [Exp. #146.]

San Jose State University Continuing Education *http://conted.sjsu.edu/* Degree credit, certificate, and professional development courses open to all adults—on and off campus. [Exp. #142.]

Santa Monica Web *http://www.smweb.com* City of Santa Monica in cyberspace. A city guide featuring visitor information, business directory, news. [Exp. #145.]

Seminars In Usable Design *http://www.infodesign.com/usable.design* Seminars in online information design, UI design, and usability testing. Leaders include William Horton. [Exp. #141.]

SF Jewish Bulletin *http://www.jewish.com/jb* The first Jewish weekly newspaper available in its entirety on the Web, includes articles, columns, calendar listings, classified ads, and more. [Exp. #146.]

Simon Wiesenthal Center *http://www.wiesenthal.com/* [Exp. #146.]

Southern California Gay Wired *http://www.gaywired.com/~unity/index.html* The new, interactive source for today's gay and lesbian community in Southern California. [Exp. #145.]

Tax Prophet *http://www.taxprophet.com* The Tax Prophet deciphers the Internal Revenue Code for taxpayers and professionals alike. [Exp. #141.]

This Is True *http://www.infoark.com/freecom/* Home of the popular "This Is True" newspaper column, which is also available by listserv. [Exp. #146.]

U.S. Holocaust Memorial Museum *http://www.ushmm.org* Now provides access to the complete catalog of the U.S. Holocaust Memorial Museum Research Institute document archives. [Exp. #146.]

UC Santa Cruz Extension Catalog *http://www.ucsc.edu/unex* Quarterly, UCSC Extension provides its catalog of 500 courses, as well as events and information. [Exp. #141.]

University Of Phoenix Online *http://www.uophx.edu/online/* Accredited university offering online business degree graduate and undergraduate programs for working adults. [Exp. #146.]

USS Liberty Home Page *http://www.halcyon.com/jim/ussliberty/* Information and files about the American ship that was attacked by the Israelis during the Six Day War. [Exp. #143.]

Wellness Essentials *http://voyager.via.net/netbiz/weles.html* The home page of wellness information and nutritional products and more. [Exp. #141.]

Yoga Fitness *http://www.iyoga.com/yf/* Yoga Fitness is the premier Iyengar yoga studio in the South Bay. [Exp. #146.]

WEB/INTERNET SERVICES

Bay Area Internet Solutions *http://www.bayarea.net* Full service ISP, specializing in connecting businesses to the Internet. Web design and hosting. (408)447-8690. [Exp. #144.]

Binary Services Solutions *http://www.kaiwan.com/~npham* Provider of Internet home page publishing, FoxPro, and C++ business applications. Free initial consultation. [Exp. #142.]

Bonsai Software *http://www.bonsai.com/* Bonsai Software, Inc.—software consultants, WWW setup, and WWW hosting services. [Exp. #145.]

CCnet Inc. *http://www.ccnet.com* Prices and services for CCnet, an ISP for the Bay Area and Silicon Valley. Excellent resource for home buyers in Contra Costa County. [Exp. #145.]

Creative Element Home Page *http://ocf.berkeley.edu/~daaron/creative.html* Home page for Creative Element, specializing in web production, graphic design, software engineering, and computer consulting. [Exp. #145.]

Dana Point Communications—Beach.Net *http://www.beach.net/* Dana Point Communications provides full net connectivity from dialup to 56K to T1 leased lines as well as a full range of Web services. [Exp. #146.]

DNAI's MacPac ISDN *http://www.dnai.com/isdn.html* Direct Network Access is the Mac user's source for easy affordable ISDN access. [Exp. #146.]

eCenter *http://www.ecenter.com* Putting businesses on the WWW in Virtual Trade Shows, general categories, email paging, business information. [Exp. #141.]

Flamingo Communications *http://www.fcom.com/* Provides reliable Internet access to individuals and businesses in the Los Angeles South Bay. [Exp. #146.]

Fountainhead Internet Systems WWW Site *http://www.earthlink.net/~fountainhead* Designers of World Wide Web sites. Host of the LA Superstation. LA Advertising. [Exp. #141.]

Gregory Springer Multimedia *http://www.webcom. com/~gsmmedia* Multimedia and home page design. Create Windows .EXEs and Help files for floppy or Internet distribution. [Exp. #145.]

HTML To ICADD/Braille *http://www.ucla.edu/ICADD/html2icadd-form.html* This form allows valid HTML to be transformed to ICADD and/or Braille for print-impaired users. [Exp. #142.]

Hurricane Electric *http://www.he.tdl.com/spaceservices.html* Hurricane Electric offers web space for $1 a month as well as full service Internet marketing including design, publicity, and analysis. [Exp. #146.]

HYNET Technologies *http://www.hynet.com* Providing unique systems that seamlessly integrate hypertext, smart search engines (HYNET), and databases for CD-ROM and Internet publishing. [Exp. #144.]

I-Comm: Web Surfing Without SLIP/PPP *http://www.best.com/~icomm/icomm.htm* I-Comm is a full-feature graphical WWW browser which doesn't need SLIP/PPP connections. [Exp. #141.]

IKON Communications *http://www.ikon.com* Web page designers—filmmakers with great taste and a sense of humor. [Exp. #145.]

InterBIZnet *http://www.ibiznet.com/* We provide businesses in Southern California with Web design, hosting online marketing, and Internet expertise. [Exp. #143.]

Internet Literacy Consultants *http://www.matisse.net* We help people understand and use the Internet and related technologies to accomplish their goals, via seminars and consulting. [Exp. #145.]

InterNex Information Services *http://www.internex.net* Premier Internet service provider; high speed (ISDN, frame relay, WWW server). [Exp. #146.]

InVision Consulting *http://www.iconsulting.com/* Leading solution provider of Web page development, Internet connectivity, training, etc. We do it all! [Exp. #142.]

IRIS Media Systems *ftp://ftp.netcom.com/pub/rl/rlai/www/home.html* Home of Xantippe—The Information Structuring Workbench, a Windows hypertext/hypergraphics authoring environment for HTML files. [Exp. #141.]

ISDN*tek *http://www.isdntek.com* PC-based hardware for high-speed ISDN access. [Exp. #142.]

JES & Associates, Inc. *http://www.jes.com/jes* Hands-on workshops covering PICK, Advanced PICK, Unidata, uniVerse, UNIX, Internet, and WWW. [Exp. #144.]

The L.A. Internet Everything Guide *http://worldwise.com/laguide* A total guide to Southern California and beyond. All serious publications and entrepreneurs invited to help develop this domain. [Exp. #146.]

Launch Point Internet Service *http://www.lpoint.com* How to get a Web site for your company. [Exp. #142.]

Muns Designworks *http://www.deltanet.com/users/dznwks/* A home page designer who specializes in 3-D graphics. This is a gallery of Paul's raytraced graphics. [Exp. #146.]

continued on page 258

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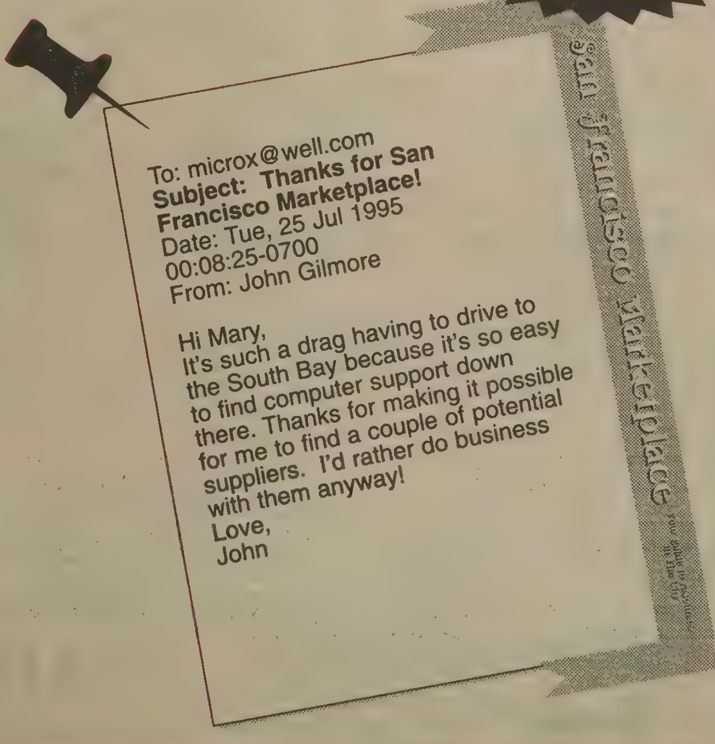

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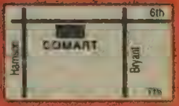

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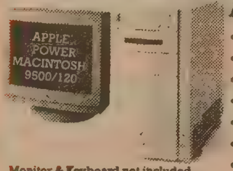
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Part# M3530LL/A

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190cs/66			
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5300c/100			
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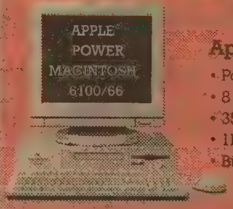
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Part# PA1196U-M2A

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- 16-bit Sound Blaster compatible
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- AccuPoint Mouse

T400CDT
8/810 ActiveColor
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- Optical trackball Mouse
- 3 Years Warranty

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Contura 420C
8/420 Color
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Part#	Description	RAM HD	Display	Your Price
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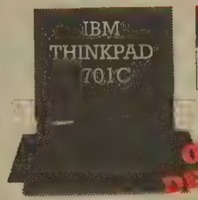
IBM® THINKPAD® 701/755



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- 75 MHz IntelDX4™ Processor
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- 2 PCMCIA slots
- 10.4" Active Color
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- 16-bit Sound
- 3 Years Warranty • Weighs 4.5 lbs

IBM®Thinkpad® 701c
8/540 Active Color
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- Mwave™ DSP16-bit Sound
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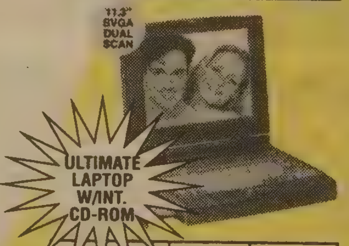

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DTC 2280 ISA/UART I.O.	$25
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VLB /ENHANCED IDE/4HDD/2S,1P I.O DTC2278E.	$25
PCI/ENHANCED IDE/2HDD/2S,1P I.O.	$30
VLB/UART I.O./4HDD/2FDD	$40
PCI/UART I.O./4HDD/2FDD	$47

SOUND CARDS:

SOUND BLASTER 16 VIBRA IDE INTERFACE	$75
SOUND BLASTER 16 w/IDE INTERFACE/ASP/MCD	$105
SOUND BLASTER AWE32 w/IDE INTERFACE/MCD MULTI-SOUND FUNCTIONS	$155
SOUND BLASTER AWE 32w/IDE INTERFACE/MCD/ASP	$255
VIDEO BLASTER MP-400	$235
WAVE BLASTER 2	$155
WAVE JAMMER 16-BIT STEREO PCMCIA SOUND CARD	$269
REAL-MAGIC 16-BIT MPEG VIDEO CAPTURE MOVIE CARD	$260

CD-ROM DRIVES:

PANASONIC 2X INT. IDE CD-ROM (320ms,300kb/s)	$90
NEC 3XP PLUS 3X EXT. PORTABLE SCSI-2 CD-ROM (220ms,450kb/s)	$379
NEC 4Xi 4X INT. SCSI-2 CD-ROM (220ms,600kb/s)	$365
NEC 4Xe 4X INT. SCSI-2 CD-ROM (220ms,600kb/s)	$465
TEAC CD55A 4X INT. E-IDE CD-ROM (195ms,600kb/s)	$145
TOSHIBA XM 3601B 4X SCSI-2 INT. CD-ROM (150ms,600kb/s)	$295
TOSHIBA XM 3502B 4X INT. E-IDE CD-ROM (196ms,600kb/s)	$165
PLEXTOR PX-63CS 6X SCSI-2 INT. CD-ROM (115ms,900kb/s)	$530
JVC CD-WRITER 2X INT. RECORDABLE CD-ROM (w/ADAPTEC CONTROLLER)	$1,865
JVC CD-WRITER 2X EXT. RECORDABLE CD-ROM (w/ADAPTEC CONTROLLER)	$2,025

HARD DISK DRIVE:

CONNER CFS425A 425MB IDE (14ms, 32K Cache)	$145
CONNER CFS540A 540MB IDE (11ms, 64K Cache)	$175
CONNER CFS850A 850MB IDE (14ms, 64K Cache)	$205
CONNER CFS1275A 1.2GB IDE (14ms, 64K Cache)	$255
WESTERN DIGITAL WD2850 850MB IDE (10ms, 128K Cache)	$220
WESTERN DIGITAL WD31200 1.2GB IDE (11ms, 128K Cache)	$315

TAPE BACKUP DRIVE:

COLORADO JUMBO DJ-35C 340MB INT	$145
COLORADO JUMBO DJ-25C 680MB INT	$235
COLORADO JUMBO DJ-50C 1400 1.3GB INT	$305
COLORADO TRACKKER 250MB EXT	$255
COLORADO TRACKKER 350MB EXT. (Parallel Port)	$285
COLORADO TRACKKER 680MB EXT. (Parallel Port)	$359
HP 35470DAT 2.0GB 4mm SCSI 3.5" INT	$795
HP 35480DAT 4-8GB 4mm SCSI 3.5" INT	$895
HP 35480DAT 4-8GB 4mm SCSI 3.5" EXT	$995
HP C1533A 4-16GB 4mm SCSI INT	$1075

FAX MODEM:

SMARTLINK 14.4 INT. V.32 bis FAX/MODEM	$58
SMARTLINK 14.4 INT. V.32 bis FAX/MODEM w/VOICE	$65
SMARTLINK 28.8 INT. V.34 AT&T CHIPSET	$135
ZOLTRIX 28.8 V.34 INT.	$129
BOCA 28.8 V.34 INT	$185
US ROBOTICS SPORTSTER 14.4 INT/EXT V.34 bis	$99/125
US ROBOTICS 28.8 V.34 INT/EXT	$225/235
US ROBOTICS COURIER 28.8 INT	$395
US ROBOTICS COURIER 28.8 EXT	$425
E-TECH 14.4 PCMCIA V.34	$108
PRACTICAL 14.4 PCMCIA V.34	$165
PRACTICAL PERIPHERAL 28.8 PCMCIA V.34	$285

LAN PRODUCTS:

3COM 3C509B ETHERLINK III 16-BIT COMBO OEM/REGULAR	$95/125
3COM 30579 ETHERLINK III EISA COAX/TP	$225/225
3COM 3C590 PCI TP/COMBO	$135/165
3COM 3C589 PCMCIA TP/COMBO	$165/210
INTEL ETHEREXPRESS 32 FLASH EISA COMBO	$225
INTEL ETHEREXPRESS PRO-16 PCLA 8205 FLASH BNC/AUI/TP	$135
INTEL ETHEREXPRESS PRO-16 PCLA 8220 TP OEM/REGULAR	$69/95
XIRCOM CE2-10BT PCMCIA TP	$165
XIRCOM CE2-10BC PCMCIA COMBO	$215
OEM NE-2000 16-BIT COMBO (JUMPERLESS)	$39
OEM NE-2000 16-BIT COMBO (JUMPER)	$36
OEM CONCENTRATOR w/AUI 4/8/12/16 PORT	$165/195/395/515
NOVELL LANWORKPLACE 5.0 SINGLE/10-USER	$295/1295
NOVELL NETWARE 3.12 OEM/REG 5/10/25 USER	$525/595/1155/1365/1825/2095
NETWARE 4.1 OEM/REG 5/10/25 USER	$560/685/1185/1485/1895/2185
NOVELL NETWARE 4.1 REGULAR 50/100/250-USER	$3175/4375/7465

MONITOR:

MGC 14" SVGA 1024x768 .28mm NI GREEN	$219
GVC VESA 15" SVGA 1280x1024 .28mm NI GREEN (DIGITAL)	$320
ACERVIEW 761 17" SVGA 1280x1024 .28mm NI (ONVIEW & DIGITAL)	$455
NEC XV 15" SVGA 1024x768 .28mm NI 1280X1024 60Hz FLAT	$785
NEC XV17 17" SVGA 1280x1024 .28mm NI 60Hz	$815
SONY CPD-15SF 15" SVGA 1280x1024 .25mm NI	$999
SONY CDP-17SF 17" SVGA 1280x1024 .25mm NI	$869
VIEWSONIC 15ES 15" SVGA 1024x768 .28mm NI	$385
VIEWSONIC 15GA 15" SVGA 1280x1024 .28mm NI BUILT-IN SPEAKERS	$535
VIEWSONIC 17PS 17" 1600x1280 .27mm NI 77Hz ONVIEW/MAC II	$895
VIEWSONIC 21PS 21" SVGA 1600x1280 .125mm NI ONVIEW/MAC II	$1785

DISPLAY CARD:

TRIDENT 9440 V2.0 VLB 32-BIT SVGA w/1MB DRAM EXP. 2MB	$75
TRIDENT 9440 V3.0 PCI SVGA w/1MB DRAM EXP. 2MB	$80
DIAMOND STEALTH 64 VLB/PCI SVGA w/1MB DRAM EXP. 2MB	$120
DIAMOND STEALTH 64 PCI SVGA w/2MB VRAM	$276
ATI WINTURBO PCI/VLB SVGA w/4MB VRAM	$455/495
#9 FX MOTION 771 PCI w/2MB or 4MB VRAM (S3 VISION 968)	$280/435
#9 IMAGINE 128 PCI/4MB VRAM OR 128-1600 PCI/4MB VRAM	$835/1055
MATROX MILLENIUM PLUS 1600x1280 PCI/2MB VRAM	$345

CASE:

FULL TOWER CASE w/230 WATT POWER SUPPLY	$85
MEDIUM TOWER CASE w/230 WATT POWER SUPPLY	$65
MINI TOWER CASE w/230 WATT POWER SUPPLY	$45
BABY DESKTOP AT CASE w/230 WATT POWER SUPPLY	$45
SUPER MINI TOWER CASE w/230 WATT POWER SUPPLY	$55
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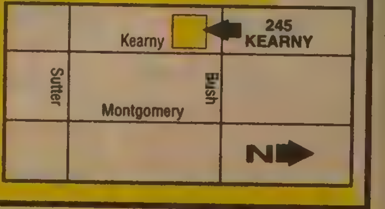

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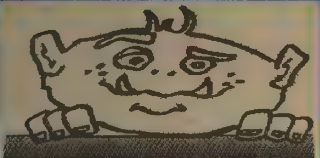

MONSTER SALE
- Multimedia Special -

Mini Tower w/230 Watt P/S
VLB Motherboard
w/256K Cache Memory
4MB SIMM RAM Memory
1.44 MB (3 1/2") Floppy Drive
540MB Hard Drive
1MB Windows Accelerator Card
14" SVGA Non-Interlaced Monitor
101 Enhanced Keyboard
+ MS compatible Mouse
16 bit Stereo Sound card
2X Speed MPC Photo CD -ROM Dr. (250ms Access , 300 KB/Sec Transfer)
Shielded Stereo Speakers
& Free CD Title !!

AMD 486DX2-66	$879
AMD 486DX2-80	$899
AMD 486DX4-100	$939
Cyrix 486DX2-66	$879
Cyrix 486DX2-80	$889
Cyrix 486DX4-100	★$929
Intel 486DX2-66	$859
Intel 486DX4-100	$999

VESA LOCAL BUS SYSTEM

Mini Tower Case w/230W P.S.
3 VL-Bus Slot Motherboard
w/256K Cache Memory
4MB Ram Memory
2FD/2HD IDE Controller
1.44MB Floppy Drive (3 1/2")
540MB Hard Drive (14ms)
32 Bit VL-Bus Video Card /1MB
14" SVGA, N.I. Monitor (.28dp)
101 Key Enhanced Keyboard

AMD 486DX2-66	$799
AMD 486DX2-80	$809
AMD 486DX4-100	$829
Cyrix 486DX2-66	$789
Cyrix 486DX2-80	$799
Cyrix 486DX4-100	★$799
IBM 486SLC2-66 w/*64k	$789
Intel 486DX2-66	$849
Intel 486DX4-100	$889

PCI-Bus SYSTEM

Mini Tower Case w/230W P.S.
256KB External Cache Memory
3 -PCI Bus Slot Motherboard
4MB Ram Memory (72 Pin SIMMS)
1.44MB Floppy Drive
540MB IDE Hard Drive
1 MB PCI Video Card
16 Million True Color Display
14" N.I. SVGA Monitor (.28dp)
101 Key Enhanced Keyboard

AMD 486DX2-66	$829
AMD 486DX2-80	$839
AMD 486DX4-100	$869
Cyrix 486DX2-66	$819
Cyrix 486DX2-80	$829
Cyrix 486DX4-100	$849
Intel 486DX2-66	$879
Intel 486DX4-100	$919

PENTIUM POWER!!

Mini Tower Case w/230W P.S.
256KB External Cache Memory
8MB Ram Memory (72 Pin SIMMS)
1.44MB Floppy Drive
1.0GB Hard Drive
PCI - 1 MB Video Card
- 16 Million True Color Display
15" Flat Screen Monitor (.28dp)
101 Key Enhanced Keyboard

1.0 GB!! Hard Drive 15"Monitor

Pentium 60 MHz	$1239
Pentium 75 MHz	$1279
Pentium 90 MHz	$1379
Pentium 100MHz	$1489
Pentium 120MHz	$1689
Pentium 133MHz	$1889

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VL-Bus w/cpu fan
& 256k cache
mini tower
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VL-1MB video
540MB hard drive
VL-Bus IDE
w/fast serial ports
1.44 MB Floppy drv
Acer 4X CD-ROM
16bit Sound card
160W speaker pair
15" Monitor
101 Keyboard
mouse

$1439

PENTIUM ULTRA SYSTEM

Medium Tower w/230W P.S.
PCI-Bus Triton chipset Motherboard
w/256K PipelinedBurst Cache Memory
cpu cooling fan w/ heatsink
16MB Ram Memory - EDO
1.2GB Hard Drive (256k buffer)
Diamond Stealth Video 64 PCI /2MB
1.44MB Floppy Drive (3 1/2")
PCI-IDE built-in; *Fast I/O* ports
Sound Blaster Awe 32 sound card
Toshiba 4X CD-ROM drive - IDE
170 watt Shielded SRS speakers
17" Mag SVGA Monitor (.26dp)
101 Keytronic Keyboard
Microsoft ergonomic mouse

Pentium 90Mhz	$2798
Pentium 100Mhz	$2908
Pentium 120Mhz	$3118
Pentium 133Mhz	$3248

! Upgrades ! Upgrades ! Upgrades !

4MB to 8MB RAM Memory	Add $160
4MB to 16MB RAM Memory	Add $450
8MB to 16MB RAM Memory(72p)	Add $320
540MB Hard Drv. to 850MB (IDE)	Add $45
540MB Hard Drv. to 1.0GB (IDE)	Add $175
850MB Hard Drv. to 1.0GB (IDE)	Add $85
Mini to Medium/Full Tower	Add $30 / 50
Medium to Full Tower	Add $20
VLB to PCI M.B. w/PCI Video.	Add $95
14" SVGA,N/I to 15"/17"	Add $119 / 350
15" SVGA to 17"	Add $250
486 CPU Cooling Fan	Add $15

!! Ask for other Upgrades !!

Microsoft Windows 95 - *Full Version*
with System Purchase only CD-ROM: $129 / 3.5" HD floppy disks: $135

Panasonic Double Speed CD Kit: $109
Panasonic Double Speed CD-ROM Drive

TEAC 4X-Speed CD Kit: $219
Teac 55A Quad Speed CD-ROM Drive
includes:
- Gallant 16bit Stereo Sound Card, Sound Blaster Pro compatible
- 1 Pair of Shielded Speakers
- Sound Card software
- CD Deluxe Pack 4 CD

Multimedia Upgrade Kits

4X Speed IDE Multimedia Kit $259
- Sound Blaster 16 IDE Sound Card

FREE 1 Pair of Shielded Speakers
FREE Sound Card software
FREE CD Deluxe Pack 4 CD

HIGH END! PENTIUM MULTIMEDIA

Medium Tower w/230W P.S.
PCI-Bus Intel chipset Motherboard
w/256K Cache Memory
cpu cooling fan w/ heat sink
16MB Ram Memory
Qlogic *Fast! SCSI* PCI Controller
1.44MB Floppy Drive (3 1/2")
1.0GB Conner SCSI Hard Drive
Diamond Stealth *Video 64* PCI / 2MB
Toshiba *4X SCSI* CD-ROM drive
Sound Blaster 16 sound card
200 Watt *Shielded* Speaker set
15" SVGA, Digital Monitor (.28dp)
Microsoft Natural Keyboard
Microsoft Mouse

Pentium 100Mhz	$3088
Pentium 120Mhz	$3288
Pentium 133Mhz	$3438

! HOT Specials !

Diamond Stealth Video 64 - *PCI / 2MB VRAM*	$279
Toshiba 4X 5302B IDE-(190ms,600KB/s) ,256K buffer	$179
Toshiba 4X 5301BSCSI-(150ms,660KB/s),256K buffer	$269⁹⁹
Iomega Zip100 Drive -PC, SCSI, External	$239
Pro PC TV (PC to TV/VCR external Adapter)	$179⁹⁹
Multi Pro CTV (Mac/PC to TV/VCR external Adapter)	$279⁹⁹
NexGen NX586 P-90 VL-Bus/256K Cache mb, cpu+fan	$299
28,800 Fax/Modem v.34	$125⁹⁹
Microsoft Home Mouse	$45

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AMD 486 DX4-100Mhz PCI System

$999

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486DX PCI Main Board
256KB External Cache Memory
AMD 486DX4-100Mhz CPU
486 CPU Cooling Fans & HeatSink
8MB Main Memory
IDE Floppy/Hard disk Controller
2 Serial, 1 Parallel Printer Ports
1.44MB Floppy Drive
1.0GB Enhanced IDE Hard Disk
Trident PCI Graphic Accelerator w/1MB RAM
14" Non Interlaced SVGA Color Monitor (0.28)
101 Keys Enhanced Keyboard
Optional
Intel 486Dx4-100 MHz $79

Cyrix 586-100Mhz (VLB) System

$1099

Mini Tower Case w/230w Power Supply
Cyrix 586-100Mhz VLB Main Board
256KB External Cache Memory
Cyrix M1SC 5x86100Mhz CPU
Math Co-Processor Built in
CPU Cooling Fans & HeatSink
8MB Main Memory
IDE Floppy/Hard disk Controller
2 Serial, 1 Parallel Printer Ports
1.44MB Floppy Drive
1.0GB Enhanced IDE Hard Disk
Chips & Technology VLB Graphic Accelerator w/1MB RAM
14" Non Interlaced SVGA Color Monitor (0.28)
101 Keys Enhanced Keyboard

NexGen P90Mhz VLB System

$1199

Mini Tower Case w/230w Power Supply
Alaris P90-100Mhz VLB Main Board
256KB External Cache Memory
NexGen P90Mhz CPU
CPU Cooling Fans & HeatSink
8MB Main Memory
IDE Floppy/Hard disk Controller
2 Serial, 1 Parallel Printer Ports
1.44MB Floppy Drive
1.0GB Enhanced IDE Hard Disk
Chips & Technology VLB Graphic Accelerator w/1MB RAM
14" Non Interlaced SVGA Color Monitor (0.28)
101 Keys Enhanced Keyboard

Pentium PCI System

Mini Tower Case w/230w Power Supply
SiS Pentium 586 PCI Main Board
256KB External Cache Memory
8MB Memory
PCHDE Enhanced Controller
Hi-Speed IO
2 Serial, 1 Enhanced Printer Port
1.44MB Floppy Drive
1.0GB EIDE Hard Disk
Trident PCI Graphic Accelerator SVGA Card w/1MB RAM
15" Flat Screen SVGA NI Color Monitor (0.28)
101 Keys Enhanced Keyboard

System Sale

Intel Pentium 75MHz	**$1299**
Intel Pentium 90MHz	**$1399**
Intel Pentium 100MHz	**$1499**
Intel Pentium 120MHz	**$1699**

Triton Pentium PCI Special

Mini Tower Case w/230w Power Supply
Intel Triton Pentium PCI Main Board
256KB External Cache Memory
Pipelined Burst Cache Socket Ready
CPU Cooling Fans & Heat Sink
16MB Main Memory
PCHDE Enhanced Controller
Hi-Speed IO
2 Serial, 1 Parallel Printer Port
1.44MB Floppy Drive
1.2GB Enhanced IDE Hard Disk (11ms)
Diamond Stealth 64 Video w/2MB DRAM
15" Flat Screen SVGA NI Color Monitor (0.28)
101 Keys Enhanced Keyboard

System Sale

Intel Pentium 75 MHz	**$1699**
Intel Pentium 90 MHz	**$1799**
Intel Pentium 100 MHz	**$1899**
Intel Pentium 120 MHz	**$2099**

Optional
Upgrade to 256K Pipelined Cache add $129

Panasonic 2x Double Speed Kit $99.99

Sound Blaster Pro Stereo Sound Card
Panasonic 2x Double Speed CD ROM Drive
(300ms, 300kb/Sec, Multisession)
Pair of Magnetic Shielded Speakers
1 Free CD

Creative Lab 4x Quad Speed Kits $209.99

Creative Lab 16 Sound Blaster Stereo Sound Card
Teac/Panasonic 4x Quad Speed CD ROM Drive
(55A/581, 200ms, 600kb/Sec, Multisession, CD-I)
Pair of Magnetic Shielded Speakers
1 Free CD Title

Toshiba 4x Quad Speed Kit $229.99

Creative Lab 16 Sound Blaster Stereo Sound Card
Toshiba 4x Quad Speed CD ROM Drive
(5301B, 150ms, 600kb/Sec, Multisession, CD-I)
Pair of Magnetic Shielded Speakers
1 Free CD Title

Sanyo 4x Quad Speed (SCSI) $229.99

Media Vision (Pro Audio Spectrum) 16 Sound Card with SCSI Controller Built in
Sanyo 4x Quad Speed CD ROM Drive (SCSI)
(175ms, 600kb/Sec, Multisession, CD-I)
Pair of Magnetic Shielded Speakers
1 Free CD Title

NEC 4x Quad Speed (SCSI) $279.99

Media Vision (Pro Audio Spectrum) 16 Sound Card with SCSI Controller Built in
NEC 4x Quad Speed CD ROM Drive (SCSI)
(175ms, 600kb/Sec, Multisession, CD-I)
Pair of Magnetic Shielded Speakers
1 Free CD Title
Optional :

For Toshiba (5301) 4x SCSI CD ROM Drive,150ms	**Add $10**
For Toshiba (3601) 4.4x SCSI CD ROM Drive, 660ms	**Add $79**

CD ROM Drives

Panasonic (CR-563) 2x CD ROM Drive (AT BUS)	**Best Deal $59.99**
Teac 55A 4x Speed CD ROM Drive (Panasonic)	**$149.99**
Toshiba (5302B) 4x CD ROM Drive (IDE)	**$159.99**
Sanyo (CRD 254S) 4x CD ROM Drive (SCSI)	**$175**
Toshiba (5301B) 4x CD ROM Drive (SCSI)	**$279**
Toshiba (3601B) 4.4x SCSI CD ROM Drive	**$292**
NEC 511 4x CD ROM Drive (SCSI)	**$279**

Sound Cards

Audio Plus Sound Card (8 Bit)	**$29**
Jazz 16 Sound Card (MCD)	**$49**
Mega Wave 16 Stereo Sound + 32 Voice Wave Table card	**$109**
Sound Blaster 16 Stereo Sound Card (IDE)	**$67**
Sound Blaster 16 Sound Card (Panasonic) w/ASP	**$79**
Sound Blaster AWE 32 Sound Card	**$149**
Sound Blaster AWE 32 (up to 29MB Memory)	**$269**
Turtle Beach (Montecarlo) 16 Sound Card	**$69**
Media Vision 16 Sound Card w/SCSI	**Super Deal $59**
MPEG Video Play Back Display Card	**$169**
CD Caddy Try	**$2.99**

Memory Sale

1MB/4MB (30pins)	$38/129
4MB/8MB/16MB/32MB (72pins)	$135/270/489/999
4MB/8MB/16MB/32MB (72pins) w/Parity	$159/319/599/1169
4MB/8MB (EDO)	$180/360

Main Board w/CPU Sale

ISA Main Board	
486 40Mhz SLC/DLC	**Super Price** $59/59
486 40/66 SLC (Vesa Local Bus)	**Super Price** $59/79
486 Main Board VLB w/128K Cache	
Cyrix 66/80Mhz	$119/129/159
AMD 66/80/100Mhz	$119/129/169
Intel 66/100Mhz	$179/229
Optional	
Upgrade to 256KB Cache	$15
Upgrade to **PCI** with 256K Cache	add $29
Alaris (VLB) Main Board, CPU & 256K Cache	
IBM 486-75Mhz	$159
NexGen Pentium 90/100Mhz	$299/359
Pentium PCI MainBoard (Built in 4 PCI-EIDE & Hi Speed IO Ports & 256k Cache)	
SiS-P 75/90/100/120Mhz	$349/449/549/749
Intel Triton P75/90/100/120Mhz	$379/479/579/799
Intel Zappa P75/90/100/120Mhz	$429/529/629/869
TRITON Pentium w/PipeLined Burst 256 Cache & Voltage Regulator	
P75/90/100/120Mhz	$479/579/679/899
CPU Cooling Fans	**Add $10**

Video Card Sale

Mono Graphic Card w/Printer Port	**$25**
16 Bit SVGA Card with 256K/512K/1MB RAM	**$29/39/59**
16 Bit Windows Accelerator w/1M (16M Color)	**$69**
32 Bit Windows Accelerator w/1MB (VL-Bus)/(PCI)	**$69/79**
S3 Trio 64 Graphic Card w/1MB (PCI)	**New $95**
Diamond Stealth-64 w/1MB (PCI)/(VLB)	**$119/129**
Diamond Stealth-64 *Video* w/2MB (PCI)/(VLB)	**$169/179**
Diamond Stealth-64 *Video* w/2MB Video RAM (PCI)	**$249**
Diamond Stealth-64 *Video* w/4MB Video RAM (PCI)	**$429**
ATI Mach 32 (Graphic Wonder) w/1MB (VLB)	**Best Price $79**
ATI WinBoost (Expression) w/2MB (PCI/VLB)	**$175**
ATI Winturbo (Mach 64) w/2MB VRAM (PCI)	**$249**
Media Vision SVGA (VL-Bus)w/2MB Video RAM	**New $135**
#9 Vision 330 (PCI/VLB) S3 Trio 64, 2MB DRAM	**$169**
#9 Motion 771 (PCI/VLB) S3 968, 2MB VRAM	**$279**
Matrox Graphics-Millennium (PCI) 2MB/4MB VRAM	**$329/479**

Floppy Drive Sale

Fujitsu 1.2MB (5 1/4")/1.44MB (3 1/2")	$37.99/27.99
Teac 1.2MB (5 1/4")/1.44MB (3 1/2")	$42.99/32.99

Hard Disk Sale

IDE	
SamSung (IDE) 850MB/1.08GB/1.2GB-11ms	**New** $189/219/239
Conner (IDE) 120/420/540/850MB, 1.2GB (11ms)	$89/149/169/199/249
Maxtor (IDE) 425/540/850MB, 1.2GB/1.6GB (11ms)	$149/169/199/259/449
Western Digital (IDE) 635/850MB, 1.2GB/1.6GB (10ms)	$179/209/289/519
Quantum 540/840MB, 1.08GB	$179/199/239
Fujitsu (IDE) 540MB/1.08GB (10ms)	**Super Deal** $159/219
SCSI	
Conner 540MB/1.08/2.1/4.3GB (8.5ms)	$179/359/699/1099
Quantum 540/840MB/1.08/2.1/4.3 GB (8.5ms)	$179/249/329/719/999
Fujitsu 525MB/1.05GB	$199/359
Fast/Wide SCSI Drive 8.5ms	
Fujitsu 1.0GB/2.1GB	$499/799
Conner 1.0GB (Wide SCSI)	$459
Quantum 2.1GB/4.3GB (Wide, 8.5ms)	$859/1099

Controller Sale

I/O Port Card (2S, 2P,1G)	**$12.99**
Hi Speed I/O (2-16550 UART, 2P-Enhanced)	**$34.99**
Printer Port Card	**$9.99**
16 Bit IDE w/I/O Ports	**$12.99**
16 Bit IDE w/Hi Speed I/O Ports	**Best $19.99**
32 Bit Enhanced IDE with I/O Ports	**$16.99**
32 Bit Enhanced IDE with Hi-Speed I/O Ports	**$24.99**
PCHDE Only	**$19.99**
PCHDE Controller w/Hi Speed I/O Ports	**$34.99**
PCI- IDE Caching Controller (infopedia)	**$109.99**
Promise 4030 (VLB) IDE Caching Controller	**$99.99**
Promise 5030 (PCI) IDE Caching Controller	**$129.99**
Adaptec 1522/1542C (ISA) SCSI Controller	**$75/175**
Adaptec 2940/2940W PCI SCSI Controller	**$199/249**
AdvanSys SCSI Controller (ISA)/(VLB)/(PCI)	**$139/169/159**
Bus Logic BT946C	**$169**

Monitor Sale

14" Flat Screen Monochrome Monitor	$79
14" VGA Mono Monitor	$99
14" Non Interlaced SVGA Color Monitor (0.28)	$199
15" KFC Flat Screen SVGA Color Monitor (0.28) Analog	$299
15" KFC Flat Screen SVGA Color Monitor (0.28) Digital	$339
17" KFC Flat Screen SVGA Color Monitor (0.28) Digital	$589
17" KFC Flat Screen SVGA Color Monitor (0.26) Digital	$629
15" MAG-DX15F Flat Screen SVGA Monitor (0.28)	$379
17" MAG-DX17F Flat Screen SVGA Monitor (0.26)	$649
Sony OEM Trinitron 0.25 Monitor	
15" (Trinitron 0.25 Tube) SVGA Monitor	$429
17" (Trinitron 0.25 Tube) SVGA Monitor	$729

Modem Sale

14,400 Fax Modem Int./Ext.	**$42/65**
14,400 Fax Modem Int./Ext. + Voice	**$52/75**
28,800 with V. 34 (Internal)/(External)	**$115/145**
PCMCIA 14,4 Fax Modem/Voice	**$99/129**
PCMCIA 28,8 + V. 34 Fax Modem Int.	**$199**
U.S. Robotic 14,400 Fax Modem	**$99**
U.S. Robotic 28,800 V.34 Fax Modem Int./Ext.	**$199/219**

Tape Back-Up Sale

Colorado Tape Drive	
350MB/External Tracker	**$139/299**
800MB (Model: HPT 1000)	**New $199**
1.3GB (Model: BJ-50)	**New $299**
Colorado Tape Cartridge (QIC)	
250/350/800MB,1.3GB	**$12/25/35/40**
Conner Tape Drive	
420/850MB, 4GB	**$139/199/ 529**
Conner Tape Cartridge (QIC)	
420/850MB, 4GB	**$15/29/39**

NetWork Card Sale

D Link16 Bit Ethernet Card Combo (RJ45, BNC)	**$34**
3Com 3c509B COMBO Ethernet Card (RJ 45, BNC)	**$119**
T Connector/Terminator	**$2**
Coax Cable w/BNC Connector 10/25/50/100 ft	**$5/9/14/19**

Printer Sale

HP 540/660C Deskjet	**$289/519**
HP 4L LaserJet	**$499**

Scanner Sale

256 Gray Scale Hand Scanner	**$79**
16M True Color Hand Scanner	**$169**

Keyboard Sale

Mitsumi 101 Keys Enhanced Keyboard	**$16.99**
101-Click-Enhanced Keyboard	**$18.99**
Maxi Switch/Keytronic 101 Keyboard	**$29**
Chicony 101 ** Natural ** Keyboard	**New $49**
NMB 101 Click Enhanced Keyboard	**$49**
Microsoft Natural Keyboard	**$85**

Cash prices reflected. Credit card prices are different from cash. Not responsible for typos. Prices subject to change w/o notice.

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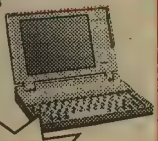
NOTEBOOK SPECIALS

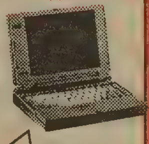
TOSHIBA T2115CS



- Intel DX4-75MHz
- 4MB RAM exp to 28MB
- 330MB Hard Drive
- 1MB VRAM
- 2 PCMCIA Slots
- 10.4" Dual Scan Color
- Built-in Power Supply
- AccuPoint Mouse

$2199

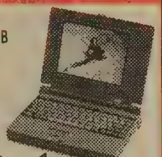
TOSHIBA T2130CT



- Intel DX4-75MHz
- 8MB RAM exp to 28MB
- 520MB Hard Drive
- 1MB VRAM
- 2 PCMCIA Slots
- 10.4" Active Matrix Color
- Built-in Power Supply
- AccuPoint Mouse

$3139

TOSHIBA T2130CS



- Intel DX4-75MHz
- 8MB RAM exp to 28MB
- 520MB Hard Drive
- 1MB VRAM
- 2 PCMCIA Slots
- 10.4" Dual Scan Color
- Built-in Power Supply
- AccuPoint Mouse

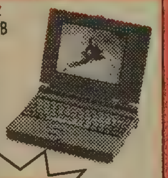
$2579

TOSHIBA PORTEGE [illegible]

- Intel® Pentium 90MHz
- 8MB Ram exp. to 40MB
- 720MB Hard Drive
- 2 PCMCIA Slots (2 Type II or 1 Type III)
- 9.5" Active Color Screen
- 16-bit Sound Blaster Compatible
- External Floppy Drive
- 5Hr. Battery Life
- AccuPoint Mouse

$4659

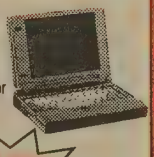
TOSHIBA T4800CS



- Intel® Pentium 75MHz
- 8MB RAM exp to 40MB
- 810MB Hard Drive
- 2 PCMCIA Slots (2 Type II or 1 Type III)
- 10.4" Dual Scan
- External Floppy Drive
- 5Hr. Battery Life
- AccuPoint Mouse

$3815

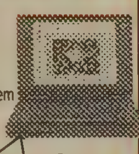
TOSHIBA T4800CT



- Intel® Pentium75MHz
- 8MB RAM exp to 40MB
- 810MB Hard Drive
- 2 PCMCIA Slots (2 Type II or 1 Type III)
- 10.4" Active Matrix Color
- External Floppy Drive
- 5Hr. Battery Life
- AccuPoint Mouse

$4677

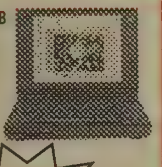
IBM THINKPAD® 701CS



- Intel® DX4-75MHz
- 8MB RAM exp to 24MB
- 540MB Hard Drive
- 2 PCMCIA Slots
- 10.4" Dual Scan Color
- Built-in 14.4/14.4 Fax Modem
- 16-Bit Sound
- 3 Year Warranty
- Weight 4.5lbs

$3699

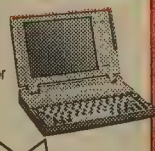
IBM THINKPAD® 701CS



- Intel® DX4-75MHz
- 8MB RAM exp to 24MB
- 360MB Hard Drive
- 2 PCMCIA Slots
- 10.4" Dual Scan Color
- Built-in 14.4/14.4 Fax Modem
- 16-Bit Sound
- 3 Year Warranty
- Weight 4.5lbs

$3389

IBM THINKPAD® 701C



- Intel® DX4-75MHz
- 8MB RAM exp to 24MB
- 360MB Hard Drive
- 2 PCMCIA Slots
- 10.4" Active Matrix Color
- Built-in 14.4/14.4 Fax Modem
- 16-Bit Sound
- 3 Year Warranty
- Weight 4.5lbs

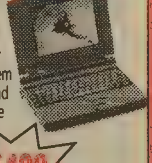
$3989

IBM THINKPAD® 701C

- Intel® DX4-75MHz
- 8MB RAM exp to 24MB
- 540MB Hard Drive
- 2 PCMCIA Slots
- 10.4" Active Matrix Color
- Built-in 14.4/14.4 Fax Modem
- 16-Bit Sound
- 3 Year Warranty
- Weight 4.5lbs

$4329

IBM THINKPAD® 755CD



- Intel® DX4-100MHz
- 8MB RAM exp to 36MB
- 810MB Hard Drive
- 2 PCMCIA Slots
- 10.4" Active Matrix Color
- Built-in 14.4/14.4 Fax Modem
- Mwave™ DSP 16-Bit Sound
- Internal 2X CD-ROM Drive
- 3 Year Warranty

$5499

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Printer	Res.	PPM	
DeskJet 600	600x600	4	**$ 479**
DeskJet 850C	600x600	6	**$ 599**
DeskJet 1200C	600x300	7	**$ 989**
DeskJet 1600C	600x600	9	**$1549**

Printer	Res.	PPM	
LaserJet 5P	600dpi	6	**$ 879**
LaserJet 4Plus	600dpi	12	**$1399**
LaserJet 4V	600dpi	16	**$1899**

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- 850MB Hard Drive
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- VL-IDE Controller with fast I/O
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- Serial Mouse

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AMD 486DX2-80	**$1400**
AMD 486DX4-100	**$1500**
Cyrix 486DX2-66	**$1300**
Cyrix 486DX2-66	**$1300**
Cyrix 486DX2-80	**$1400**
Intel 486DX2-66	**$1700**
Intel 486DX4-100	**$1800**

486KCI VESA Multimedia

- Mini Tower Case w/230W PS
- UMC Chipset, 3 VESA, 4 ISA (16 Bit)
- 4MB RAM (32MB Max), 128K Cache
- 3.5" Mitsumi High Density Floppy Drive
- 540MB Enhanced IDE Hard Drive, 12ms
- 32-Bit VESA Local Bus Enhanced IDE Controller
- 32-Bit VESA Local Bus Graphics Accelerator, 1MB
- 14" NI (.28mm) 1024x768 SVGA Color Monitor
- 101-Key Enhanced Keyboard, 1 Game Port
- 2-Hi Speed 16550 UART Serial, 1 Parallel Port
- Microsoft Compatible Hi-Res Mouse
- 14.4K Internal Fax/Data Modem
- Panasonic CD-562J Double Speed CD ROM
- 16-Bit Sound Blaster Comaptible Sound Card
- Pair of Power Amplified Speakers (80 Watts)
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Quad Speed Mitsumi
CD ROM Add $100

CYRIX DX4-100	**$1049**
AMD 486DX2-66	**$1025**
AMD 486DX2-80	**$1075**
AMD 486DX4-100	**$1099**
AMD 486DX4-120	**$Call**

KCI Windows Multimedia Station

- Mini Tower Case w/230W PS
- SIS Chipset, 3PCI, 4 ISA (16 Bit)
- 8MB RAM (128MB Max), 256K Cache
- 3.5" Mitsumi High Density Floppy Drive
- 540MB Enhanced IDE Hard Drive, 12ms
- 32-Bit PCI Local Bus Enhanced IDE Controller
- 32-Bit PCI Local Bus Graphics Accelerator, 1MB
- 14" NI (.28mm) 1024x768 SVGA Color Monitor
- 101-Key Enhanced Keyboard, 1 Game Port
- 2-Hi Speed 16550 UART Serial, 1 Parallel Port
- Microsoft Compatible Hi-Res Mouse
- 14.4K Internal Fax/Data Modem
- **Toshiba Quad CD-5302B Double Speed CD ROM**
- Creative Labs Sound Blaster 16 Sound Card
- Pair of Power Amplified Speakers (160 Watts)
- Microsoft Works, Money and 10 CD Bundle
- New Groliers Encyclopedia CD

Intel Pentium P75	**$1545**
Intel Pentium P90	**$1645**
Intel Pentium P100	**$1745**
Intel Pentium P120	**$1950**
Intel Pentium P133	**$2150**

KCI Multimedia Power Station

- Mini Tower Case w/230W PS
- Intel Triton Chipset, 2 PCI, 4 ISA (16 Bit)
- 16MB RAM (128MB Max), 256K Cache
- 3.5" Mitsumi High Density Floppy Drive
- 1.2GB Enhanced IDE Hard Drive, 12ms
- 64-Bit PCI Local Bus Enhanced IDE Controller
- 64-Bit PCI Local Bus Graphics Accelerator, 1MB
- 15" NI (.28mm) 1024x768 SVGA Color Monitor
- 101-Key Enhanced Keyboard, 1 Game Port
- 2-Hi Speed 16550 UART Serial, 1 Parallel Port
- Microsoft Compatible Hi-Res Mouse
- 28.8K Internal Fax/Data Modem
- **NEC CDR 511 Quad Speed SCSI CD ROM**
- Creative Labs Sound Blaster 16 Sound Card
- Pair of Power Amplified Speakers (160 Watts)
- Microsoft Works, Money and 10 CD Bundle
- New Groliers Encyclopedia CD

Intel Pentium P75	**$2175**
Intel Pentium P90	**$2275**
Intel Pentium P100	**$2375**
Intel Pentium P120	**$2575**
Intel Pentium P133	**$2775**

Chassis/Power Supply

Mini/Mid/Full Tower Case/PS	$40/$60/$80
GVC 14" NI 0.28mm 1024X768 Monitor	$225
GVC 15" NI 0.28mm 1280X1024 Monitor	$325
3i 15" FlatSrn NI 0.28 1280X1024 Monitor	$325

Disk Controllers Keyboards/Video Cards

Winbond VESA IDE IO/w HI-Speed	$15/$19
16-bit IDE IO/with HI-Speed IO	$12/$18
Adaptec 1542CF/2940 SCSI Ctlr	$175/$198
Mitsumi/Chicony/Maxi Keyboard	$15/$16/$29
Keytronics/Microsoft Natural Keyboard	$29/$75
Cirrus Logic CL5429VESA/CL5434	$69/$89
Diamond Stealth 64 Video PCI 1MB DRAM	$129
Diamond Stealth 64 Video PCI 2MB VRAM	$259
ATI Mach 64 PCI 1MB DRAM	$129
ATI Mach 64 PCI 2MB VRAM	$259
Trident PCI Local Bus 1MB DRAM	$69

CD-ROM Drives Sound Cards

Mitsumi 4X CD-ROM	$149.95
NEC CD-511 4X CD-ROM	$199.98
Panasonic CD-562J 2X CD-ROM	$54.98
Teac CD-55A 4X CD-ROM	$159.98
Toshiba CD-3501B 4X CD-ROM	$159.98
Creative Labs SB 16 IDE/ASP/SCSI	$62/$79/$99
Creative Labs SoundBlaster AWE 32	$149
Jazz 16 Sound Card	$49

Floppy/Hard Tape Back-up Drives

Mitsumi 1.2/1.44MB Floppy Drive	$39/$29
Teac 1.2/1.44MB Floppy Drive	$43/$33
Seagate 540MB Hard Drive	$169.95
Quantum 540/850MB HD	$169.95/$209.98
Conner 540/850/120MB	$169/209/249
Western Digital 850MB/1.2GB HD	$209/269
Conner 420/800MB Tape Back up	$139/195

Motherboards with CPU

UMC 486DX2-66Mhz/128K Cache	$159.00
UMC 486DX2-80Mhz/128K Cache	$169.00
UMC 486DX4-100Mhz/128K Cache	$179.00
UMC 486DX4-120Mhz/128K Cache	$Call
Pentium SIS P-75Mhz/256K Cache	$399.00
Pentium SIS P-90Mhz/256K Cache	$499.00
Pentium SIS P-100Mhz/256K Cache	$599.00
Pentium SIS P-120Mhz/256K Cache	$799.00
Pentium SIS P-133Mhz/256K Cache	$Call
Pentium Triton P-75Mhz/256K Cache	$499.00
Pentium Triton P-90Mhz/256K Cache	$599.00
Pentium Triton P-100Mhz/256K Cache	$699.00
Pentium Triton P-120Mhz/256K Cache	$999.00
Pentium Triton P-133Mhz/256K Cache	$Call
ASUS Triton P75/90/100	$499/599/699
ASUS Triton 256K Pipe-Line Cache/P100	$799

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Crystal Caliburn	$14.95
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Dream Web	$19.95
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Pinball-Take a Break	$24.95
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Savage Warrior	$29.95
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Tie Fighter	$38.95
Top Gun	$38.95
US Navy Fighter	$39.95
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Virtuoso	$19.95
Wing Commander III	$38.95

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A Woman's Touch-DOS/MAC	$19.95
Above the Knee-Win/Mac	$19.95
All Night Long-DOS	$9.95
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Endlessly-Mac/Win	$19.98
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F.A.O. Gold (Best Of The Best)-DOS	$9.95*
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Freak Show-DOS	$19.95
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Gangbang at the OK Corral-WIN/MAC	$19.95
Garo Collection 1-Win/Mac	$19.98
Hot Slots-NEW-WIN/MAC	$29.95
I Can't Believe I Did The Whole Team-WIN/MAC	$19.95
Interactive Adventures of Chessie Moore-DOS	$19.95
Inter View (Chinese)-WIN	$9.95
Intimate Possibilities (2 CD's) NEW-WIN/MAC	$39.98
Jiggly Queens-DOS	$19.95
John Wayne Bobbit uncut-WIN/MAC	$19.95
Junkyard Dykes-Win/Mac	$19.95
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Nasty Neighbor Girls-PC/MAC	$14.95
Nasty Parts-WIN/MAC	$29.95
Naughty Pussies-WIN	$14.95
Nice But Naught-WIN	$19.98
Oh My God... I Married An Anal Queen-DOS	$19.95
Penthouse Select A Pet II-NEW-WIN	$24.95
Penthouse Virtual Photo Shoot 4-WIN	$49.95
Perverted Babysitters 1-PC/MAC	$19.95
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Sex in Dangerous Places-WIN	$19.95
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Sindy Does It All-PC/MAC	$19.95
Slippery When Wet-WIN/MAC	$19.95
Space Sirens-MAC/WIN	$34.95
Spicy Pics-DOS	$19.95
Spy Club-WIN/MAC	$34.95
Straight A's-WIN/MAC	$19.95
Strap On Sally-WIN/MAC	$19.95
Supermodel (by VIVID)-Win	$24.95
Super Hornio Brothers-DOS	$19.95
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Superstars of Japanese Porn-MAC/WIN	$29.95
Superstars of Jap. Porn 2 (NEW)-MAC/WIN	$29.95
Sweet Juices-WIN	$19.98
Taboo 12-WIN/MAC	$19.95
Totally Raw, XXX rated Amateur Video-WIN	$14.95
Tongue Tied -WIN	$19.98
Traci Loves You-DOS	$19.95
UROTSUKIDOJI-Jap. Anim. 3 CDs-DOS/MAC	$29.95
Virtual Sex-NEW-DOS	$34.98
Virtually Yours 2-NEW-Mac/PC	$39.98
Weird Sex-WIN/MAC	$19.95
Welcome To My Face-WIN/MAC	$19.95
Wild Jungle (Chinese)-WIN	$9.95
Where in the world are Dick & Jane-WIN	$34.98

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Phantasmagoria (7CD's)	**47.98**
Front Lines	**29.98**
Last Dynasty	**24.98**
Adult	
Virtual Valerie 2	**36.98**
Intimate Possibilities	**34.98**
Virgins III	**34.98**
Designer Bodies	**24.98**
X Rated Cartoons	**9.98**

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Conner 540MB IDE Hard Drive	Conner/Maxt or 850MB Hard Drive	King's Quest 7 CD	NEC CD-511 SCSI 4x CD-ROM	Panasonic CD 562J 2x CD ROM	Conner 1.2GB Hard Drive	14.4 FAX/DATA Internal Modem
$169.95	**$189.95**	**$19.98**	**$198.98**	**$54.98**	**$239.98**	**$39.95**

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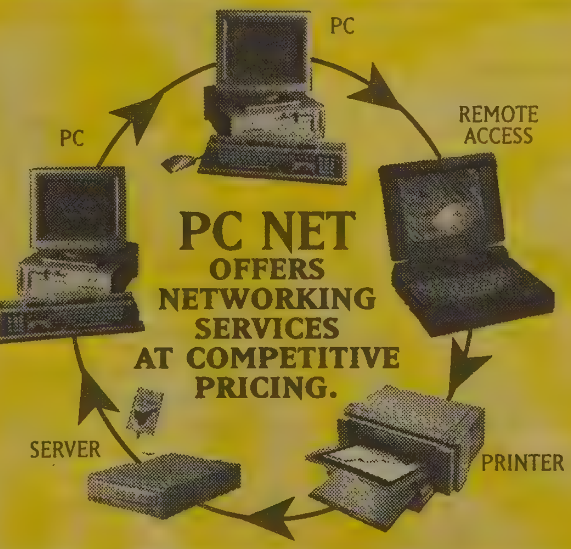
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Online Guide

Web Page Listings

continued from page 246

Net Advantage *http://www. netadvantage.com/* Web site developer and marketing agency. [Exp. #144.]

NET-ism *http://www. netism.com* NET-ism implements your local and wide area network and Internet connection expertly and efficiently. [Exp. #145.]

NetWings *http://netwings. com* NetWings is a software package that turns a small Macintosh into a full Internet server. [Exp. #143.]

NewsWEB *http://www. m2.com* NewsWEB provides free worldwide news, updated throughout the day to Web users as well as dedicated distribution service for organizations. [Exp. #146.]

Only Multimedia, Inc. *http://www.webcom.com/~only* A widely known super hot WWW site that your company can be a part of! (818)753-0037. [Exp. #142.]

P-Net *http://www.p-net. com* P-Net offers complete design, service, and support for your Web pages. Support includes HTML coding, CGI scripting, and scanning. [Exp. #144.]

PacNetWeb *http://www. pacnet.com* Pacific Internet and its PacNetWeb are your single source for Internet products and services. [Exp. #144.]

Plug Into AVCom *http:// siesta.packet.net/avcom/* Total solutions Web source. We will help you deliver your business concepts via the WWW. [Exp. #143.]

sale@exodus.com *http:// www.exodus.com* The complete solution to Internet access for business, education, and government applications. [Exp. #142.]

SOOS—Strong Opinions On Success *http://www. soos.com/* Poetry by Web poets and small-business mall. Provides low-cost Web pages for small businesses. [Exp. #146.]

SpeedGate Communications *http://www.speed.net* Complete Internet service provider for the Orange County/Long Beach area. Information on services and prices. [Exp. #142.]

Starbox Grand Central *http://www.starbox.com/starbox/* Contact Tecnation Digital World for your own Starbox WWW site and inclusion in the intuitive Starbox directory. [Exp. #141.]

SupraNet Communications *http://www.supranet.com/* Learn how to create an effective presence on the Internet quickly. Hyperlinked with a glossary. [Exp. #145.]

Touch Technologies *http:// www.in-touch.com* "Making your net work." Nationwide database, WWW, and information technology consulting. [Exp. #146.]

Vidya Media Ventures *http://www.vidya.com/* Combine solid technical awareness with creative energy to produce outstanding electronic media for the Internet and WWW. [Exp. #145.]

Visual Engineering's Ovation Web Page *http:// www.cdrom.com/pub/viseng/* This site features Ovation, a UNIX presentation package. Release 2.0 includes HTML export and PowerPoint import! [Exp. #143.]

Wave Network *http:// www.wavenet.com* The Wave Network provides fast, reliable Internet access and Web design to Los Angeles. (213)933-9283. [Exp. #142.]

Web Communications Corp. Home Page *http:// www.webcom.com/* Self-service, value-added, inexpensive WWW publishing services. [Exp. #141.]

Web Page Design Pointers *http://www.garlic. com/rfwilson/smal-bus.htm* Twelve Web page design decisions your organization will need to make. [Exp. #146.]

Webs Are Us *http://www. websrus.com* The Internet experts for design, servicing, monitoring, and hosting your business presence on the WWW. [Exp. #142.]

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Basic Privacy Procedures

continued from page 160...

Nautilus is the first program of this type that I know of to be distribut for free with its source code. A few similar commercial programs have be distributed without source code. But this renders independent examinati of the quality of security they provide totally impossible.

Basically, Nautilus uses your computer's audio hardware to digitize a play back your speech using a proprietary speech compression routi included with the program. It encrypts the compressed speech and transmits the data through your modem and across the Internet to the other person's computer. At present, the program is half-duplex; you must hit a key to switch between talking and listening. But full-duplex is said to be the works.

Nautilus generates its encryption key from a shared secret passphra that you and the other person choose. Because Nautilus does not incorporate any form of public key cryptography, you must communicate this passphrase by some other secure means before you make your call.

You can download Nautilus in two different formats: The file "nautilus-0.9.0.tar.gz" contains the program's complete source code, whil "naut090.zip" contains an MS-DOS executable file and appropriate doc mentation for it. [See sidebar.]

Note: Under current law, Nautilus is legal only for domestic use. Anyon who sends the program beyond US borders is liable for prosecution.

Because v9.0 of Nautilus is presently a beta test version, there is at least a logical possibility the security system has flaws. Bill Dorsey, Pat Mullarky, and Paul Rubin, who wrote the software, advise against putting too much faith in the security of this version until it has undergone more third-party reviewing They encourage cryptographers and users alike to examine and test the program thoroughly, and to let them know of any problems. They hope t release an updated version fairly soon that fixes any serious bugs found i the beta test version.

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486 DX4-100 (AMD)	$1607
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486 DX2-66 (Intel)	$1624
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Pentium 100	**$737**
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486DX4-100	**$325**
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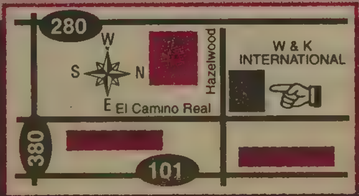
486DX2-66	**$276**



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Prices reflect cash discount.

For more information, or to contact the developers, send email to *nautilus@lila.com* .

Computer File Privacy

According to André Bacard, who wrote *The Computer Privacy Handbook: A Practical Guide to E-Mail Encryption, Data Protection, and PGP Privacy Software*, "very few people use an encryption system, even though they should. In fact, even encryption software people don't always use one."

This is not only a shame, it's a downright shame because encryption is so easy to use. [See "Pretty Good Privacy," *MicroTimes*, no. 136, May 1, 1995 for an explanation of just how easy it can be.]

Look for Nautilus a
the following "expor
controlled" FTP sites:

ftp://ripem.msu.edu/pub/crypt/other/ . Read */pub/crypt/GETTING_ACCESS* for information on access.

ftp://ftp.csn.org:/mpj/I_will_not_export crypto_???????/ . Read */mpj/README* for information on access.

ftp://miyako.dorm.duke.edu/mpj/crypto/voice/ . Read */mpj/GETTING_ACCES* for information on access.

To begin with, Bacard counsels that—onc you have created and edited a file to your liking—you encrypt it with both your intende recipient's public key and your own.

Using PGP, for example, you simply specif two public keys instead of one before you giv the command to encrypt the file. The encryption still takes place in a single pass, and take no more time than if you had encrypted the fil only for your recipient.

Once the file is encrypted, you can an should keep a copy of this encrypted file o your own computer. Whenever you want t read it, you can decrypt it with your own privat key. In the meantime, no one but you and you intended recipient can read what you've written.

Once you've converted your file to encrypte form, be sure to use some form of "disk wiping utility software—like the ones you get wit Norton Utilities or Central Point Software—t thoroughly erase both the original (clear text version of your file, and later any clear tex copies you make when you decrypt the file t review what you've written.

As a practical matter, Bacard believes, file longer than about 50K are tedious to send vi email. For a longer file, it's often practical to pu it on a disk and send or carry the disk to you intended recipient. As long as the file is properly encrypted, the actual channel you use—email, sneaker-net, or the US Post Office—i immaterial. Since no one can read the file, you only concern is that it actually arrives.

For a little extra security, you can digitally "sign" the file so your recipient can be certain i remains as you sent it, regardless of whether o not it has been intercepted en route.

Next month: A discussion of digital signatures—are they legally valid? Also, a continuation of our quest for privacy through the use o anonymous remailers, and more! ■

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1024 X 768 10"

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486SX-33 MHz 256K CACHE.	2045

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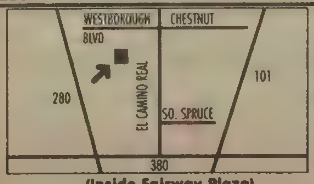

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For more information, or to contact the developers, send email to *nautilus@lila.com*.

Computer File Privacy

According to André Bacard, who wrote *The Computer Privacy Handbook: A Practical Guide to E-Mail Encryption, Data Protection, and PGP Privacy Software*, "very few people use an encryption system, even though they should. In fact, even encryption software people don't always use one."

This is not only a shame, it's a downright shame because encryption is so easy to use. [See "Pretty Good Privacy," *MicroTimes*, no. 136, May 1, 1995 for an explanation of just how easy it can be.]

Look for Nautilus a
the following "expor
controlled" FTP sites

ftp://ripem.msu.edu/pub/crypt/other/. Read */pub/crypt/GETTING_ACCESS* fo information on access.

ftp://ftp.csn.org:/mpj/I_will_not_export crypto_???????/. Read */mpj/READM* for information on access.

ftp://miyako.dorm.duke.edu/mpj/crypto/voice/. Read */mpj/GETTING_ACCES* for information on access.

To begin with, Bacard counsels that—onc you have created and edited a file to your lik ing—you encrypt it with both your intende recipient's public key and your own.

Using PGP, for example, you simply speci two public keys instead of one before you gi the command to encrypt the file. The encry tion still takes place in a single pass, and tak no more time than if you had encrypted the fi only for your recipient.

Once the file is encrypted, you can an should keep a copy of this encrypted file o your own computer. Whenever you want t read it, you can decrypt it with your own privat key. In the meantime, no one but you and yo intended recipient can read what you've written.

Once you've converted your file to encrypte form, be sure to use some form of "disk wiping utility software—like the ones you get wit Norton Utilities or Central Point Software—t thoroughly erase both the original (clear text version of your file, and later any clear tex copies you make when you decrypt the file t review what you've written.

As a practical matter, Bacard believes, file longer than about 50K are tedious to send vi email. For a longer file, it's often practical to pu it on a disk and send or carry the disk to you intended recipient. As long as the file is properly encrypted, the actual channel you use— email, sneaker-net, or the US Post Office—i immaterial. Since no one can read the file, you only concern is that it actually arrives.

For a little extra security, you can digitall "sign" the file so your recipient can be certain i remains as you sent it, regardless of whether o not it has been intercepted en route.

Next month: A discussion of digital signatures—are they legally valid? Also, a continuation of our quest for privacy through the use o anonymous remailers, and more! ■

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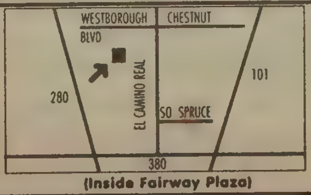

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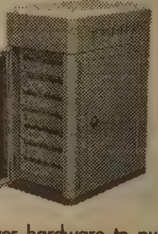

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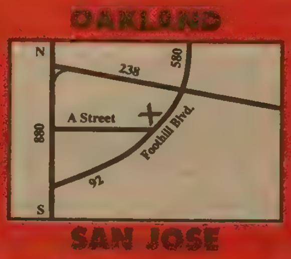

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Gulch Gossip

by Jonathan E.

For the latest **CD-ROM** and **software** news & reviews, see our **Product Spotlight** section starting on **page 176**

Reclaiming The Erotic

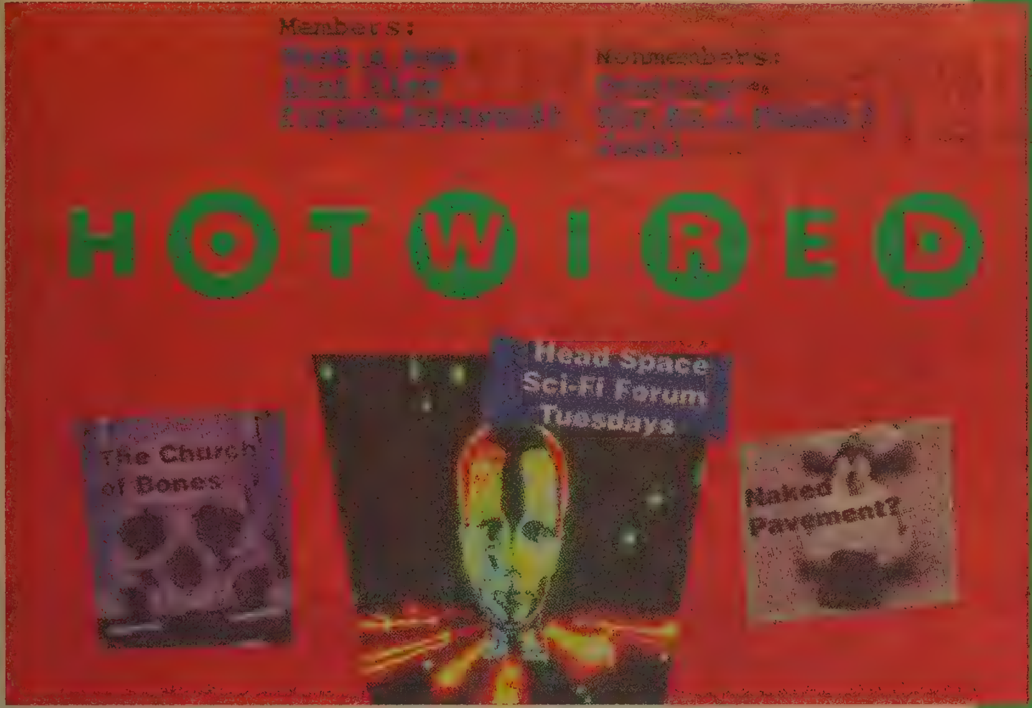
Sarah Berg, organizer of the Exploratorium's Multimedia Playground and the Electric Carnival for Lollapalooza, has a new company, Ripple Effects, with partner **Alice Ray**, an Emmy award winning filmmaker/activist who also worked on the '94 Lollapalooza tour. The first venture is Reclaiming the Erotic (*http://www.rippleeffects.com*), a Web site and "erotic environment where both men and women can take a date, and [have] a fun experience that they can enjoy in private." Berg and Ray developed the site as an alternative to both censorship and exploitation in dealing with sex in cyberspace. Apparently, you "can follow a naked Eve for a guided tour, or click on a sideways view of an undressed Everyman to begin an intriguing exploration of erotic identity." There's over a hundred pages of original content for free, but a commercial product, the Erotic Profile Kit, is the centerpiece of the site. According to the press release, "In the Kit, a one-hundred-question survey becomes a mirror through which guests can playfully and privately examine their own erotic identity. The questionnaire can also be used by couples, each answering questions about themselves and their partner. Based on their self-description, an Erotic Profile is drawn and delivered online." Ray, the designer, says, "It will give them a sense of where they fit along dimensions of sensuality, emotional intimacy, erotic power, and transcendence." If that's too much for your relationship, never fear, "The Erotic Profile sketch comes with a lubricant: guidelines to make sharing the sketch with a partner go smoothly." I'm much too shy and uptight a person to try this sort of thing myself and tell you about it. Perhaps my favorite source, **I.M. Frivolust**, will get over her experiences with **R.U. Sirius** and will become unfar flung again to let us all know what it's all about in our next issue. Or get loose and try it out for yourself in the meantime.

Reclaiming the Erotic

Get To Work With Hook-Up!

HOOK-UP! IS A NEW TALENT AGENCY IN TOWN, specializing in "Interactive Media Recruitment." **Marsha Heckman** reports that there's lots of work for programmers with multimedia experience—and those who have worked with the Sony Playstation are particularly hot right now. But the job market in multimedia changes rapidly and Hook-Up! handles the full range of talent, from behind the keyboard to in front of the camera or microphone as well as the support roles of marketing, publicity, and administration. If you fit the bill, give her or **Miki Raver** a call at (415)362-3573 or email to *hookup@well.com* .

Who knows? Maybe *Wired* will yet



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Score One For Birkerts

I'D HOPED A MONTH MIGHT GO BY WITHOUT AN ITEM ABOUT *WIRED*—BUT THIS is not that month. Having conquered the magazine and online worlds, *Wired* now turns its sights on the book world with a new imprint, HardWired Books. According to the letter soliciting submissions, this is a response to the many contributors who've expressed "a growing frustration with current publishing models and out of touch editors who don't grok your ideas." The idea is for HardWired books to be "deep channels of discourse, imagination, and presentation; they are visual design adventures, mind-bending scientific treatises, fascinating fictional worlds, enlightening works of thought, prescient political perspectives." The letter concludes, "It's time to make books that really understand what the wired world is all about." Sounds like a tall order to me, but if you believe you've got a handle on it, send your book proposal to **Peter Rutten**, HardWired, 520 3rd St., 4th Floor, San Francisco, CA 94107 or email to *peterr@wired.com* .

If you wonder why *Wired* gets so much attention, it's simply that, being a media company, *Wired* understands that the only bad publicity is no publicity—so it has a PR department that pumps out press releases with its good news and when gossipy gnats gnaw on them with snide commentary—well, it's still attention.

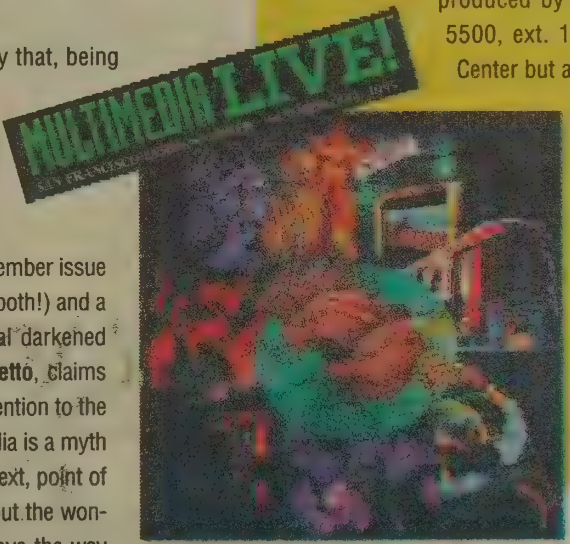
In the attention-getting game, *Wired* has high hopes for its September issue with its two alternate covers headlined "Guilty" or "Innocent" (Buy both!) and a white **O.J. Simpson**, an obvious reversal of *Time*'s controversial darkened cover of some months ago. *Wired*'s editor/publisher, **Louis Rossetto**, claims that the point of **Jon Katz**'s story is to say, "Stop, think, and pay attention to the issue of objectivity in media." It turns out that objectivity in the media is a myth (That's news!?) and that people are "looking for meaning and context, point of view." Well, that certainly explains *Wired*'s full-scale blathering about the wonders of digital technology and knee-jerk libertarianism. But I do love the way the press release refers to *Wired*'s own "brilliant design move" and its "equally provocative editorial and marketing move." I just miss the days when it could put "Absolutely nothing about O.J. Simpson in this issue!" on the cover. Who knows? Maybe *Wired* will yet stoop to covering Windows 95!

In a feeble attempt to provide at least a minimal appearance of a balanced and objective story, I now note that *Wired*'s circulation has increased by 90.2%, its total

continued on next page

Two Events...

...YOU MAY WANT TO PUT ON YOUR CALENDAR. **THE SECOND ANNUAL FutureMedia Conference and Showcase** runs September 30 and October 1 at The Fashion Center (how appropriate!), 699 8th and Townsend, San Francisco. The usual collection of speakers, panels, demonstrations, and exhibits—but this time produced by The Learning Annex. Registration via (415)788-5500, ext. 100. And **Multimedia Live!**, also at The Fashion Center but a week later with a conference from October 11 thru' 13 and an expo on October 12 and 13, promises to be a dramatically revamped, improved, and expanded version of its first iteration in March. There's lots going on, including premieres, thirty-six sessions, Microsoft and Apple presenting their respective visions of the future, Starwave showing its Clint Eastwood title, and a special presentation by Trilobyte on the making of *The 11th Hour.* For full details call (415)457-1641, check the Web site at *http://www.kweb.com/mmlive*, or email: *mmlive95@aol.com* .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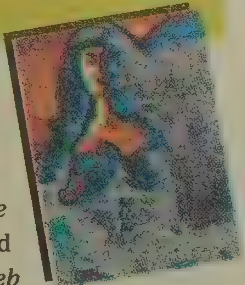
Smut Picture Racket Again

If you were intrigued by last month's Multimedia 101 column about **Deborah Jaffe**'s *Smut Picture Racket*, you can now check out her (self-)produced Web site relative to her projects at *http://www.webcom.com/~cybertzal* .



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GULCH GOSSIP *continued...*

"Score One For Birkerts" continued...

audience by 122.6% or 168.2% depending on which service bureau's figures you use, while the number of senior managers reading *Wired* increased by more than 248%, and its female audience also grew by 147.6% in the first six months of 1995. Rossetto's viewpoint? "Our advertisers are maximizing their media dollars by advertising in *Wired*."

Lastly, HotWired (*http://www.hotwired.com/*) has thrown the doors to its basic content open to nonmembers. You can surf right in—"and then move beyond surfing and become HotWired members. Membership includes access to its advanced personalization and search tools, the right to post in community discussion spaces, entry to its Club Wired auditorium and chatrooms, and participation in its member-benefit programs." Just thought all you Web surfers would like to know. As **Andrew Anker**, HotWired's president, says, "The Web is more than surfing; it's community." I have no idea whether the rumor that HotWired is up for sale is actually true. It seems unlikely; other versions of the story simply have big investors looking at it. [*As we go to press the identity of the big investors was revealed. Pacific Telesis, Burda, a German media company, and affiliates of Sega and J. Walter Thompson invested an estimated $10 million for a 15% stake in HotWired.—eds.*] But I can only interpret the remark from **Rick Boyce**, HotWired's vice president of advertising sales, that "HotWired will continue to provide sponsors with its proprietary reports about Web pages served and unique member visits, something no other Web site offers," as the community itself being for sale.

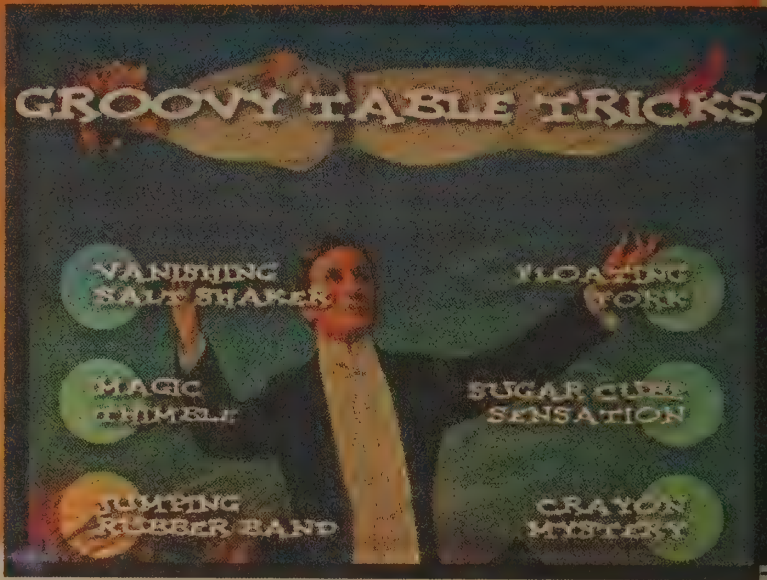
Balanced. Objective. Meaning and context. Point of view.

Not Sexist, Not Violent

I'M MOST AMUSED—or maybe perplexed—by Sanctuary Woods, a company that has loudly trumpeted its nonsexist and nonviolent stance, signing a deal to produce educational titles with the National Football League. If football isn't violent and sexist, what is? I believe that football players and viewers should be tested for testosterone poisoning.

Learn The Art Of Magic

Brøderbund has just published its first CD-ROM based around the skills of one real, live person. It's *Learn the Art of Magic With **Jay Alexander***. Jay and I actually go back quite a way; in fact, he's kind enough to say that he first came up with the idea for the title when I showed him Hypercard in 1989. Yet another long haul in the multimedia world! The completion of the title was eventually handled by Five Star Entertainment, a Gulch development company formed by **Bryan Weisberg**, Jay's brother and once of the band Until December, and **David Curtis**. Previously, they'd worked on Heyday Records' Interactive Liner Notes version of **Chris von Sneidern**'s *Big White Lies*. Jay's an accomplished magician, currently demonstrating skills at conventions and trade shows and receiving advance rave reviews for the CD-ROM. You can check him out live for yourself on October 4 at the release party, starting at 9 pm at the Transmission Theater, next to the Paradise Lounge on 11th Street in San Francisco. Of course, the questions when attending a magic show are "Do I bring my watch? Will I really get it back?" I'm pretty sure you can trust Jay.



New Interactive Media At The Mill Valley Film Festival

The Interactive Media portion of the Mill Valley Film Festival runs October 14 and 15 at the Masonic Hall in Mill Valley. Producer **Ginnie Waters** has put a lot of work into redesigning this part of the festival to be much more than just showing off CD-ROMs. She says, "We're showing how new media and film are integrating. You'll see the tools and applications that are creating the new media." One demonstration will be from US Sprint who will lay in a T-1 line to display its DRUMS system, which allows you to digitally ship and show your daily rushes around the country, watch them with remote partners while also videoconferencing with them, and have access to resource image libraries if, say, you decide that the sunset isn't quite right. Just the thing for aspiring film producers! Last-minute details were still being tied up as we went to press, but there'll be panels, including one on Multimedia Myths & Realities with **Andy Marx** of *Interactive Weekly*. Other speakers include such names as **Hal Josephson**, **Rick Smolan**, **Tony Bove**, **Jim Ludtke**, and **David Biedny**, some of whom will actually demonstrate techniques used in their work. Hopefully, **Todd Rundgren** will premier his new CD-whatever-format-it-is. [*Late word is that Rundgren will be at the Mill Valley Film Festivel to present his new CD.—eds*] There'll also be a special event for children at the New Learning Center in San Rafael, where they'll get to work on creating an interactive title, complete with sound, graphics, and video. Waters notes, "Many in the industry still think that new media is just changing the end of the movie, but we're going to show what it really is and what it can do for you." Ticket info from (415)383-5346 or via email to *finc@well.com* . Of course there'll be a Web site but the URL isn't set at press time.

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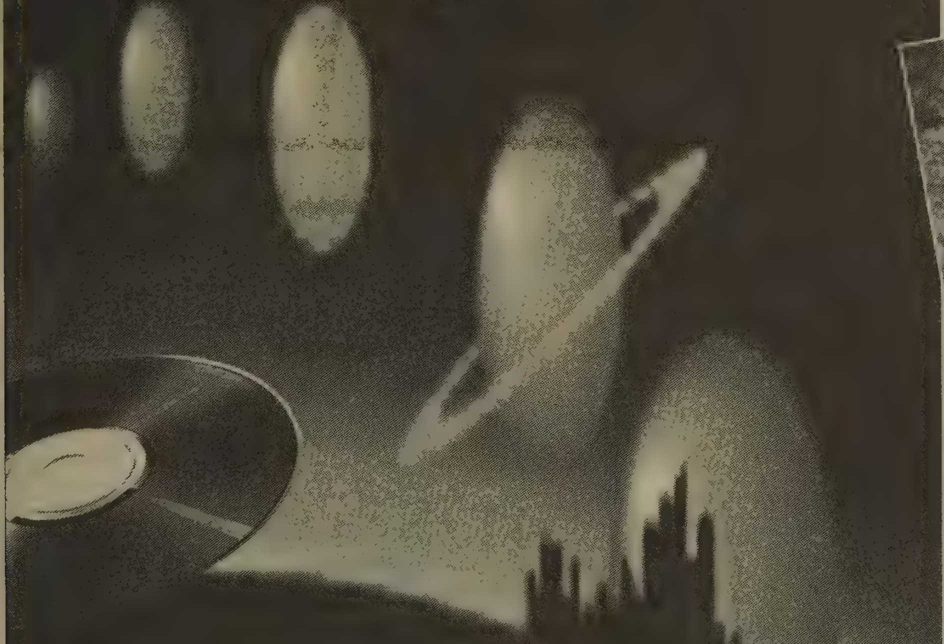

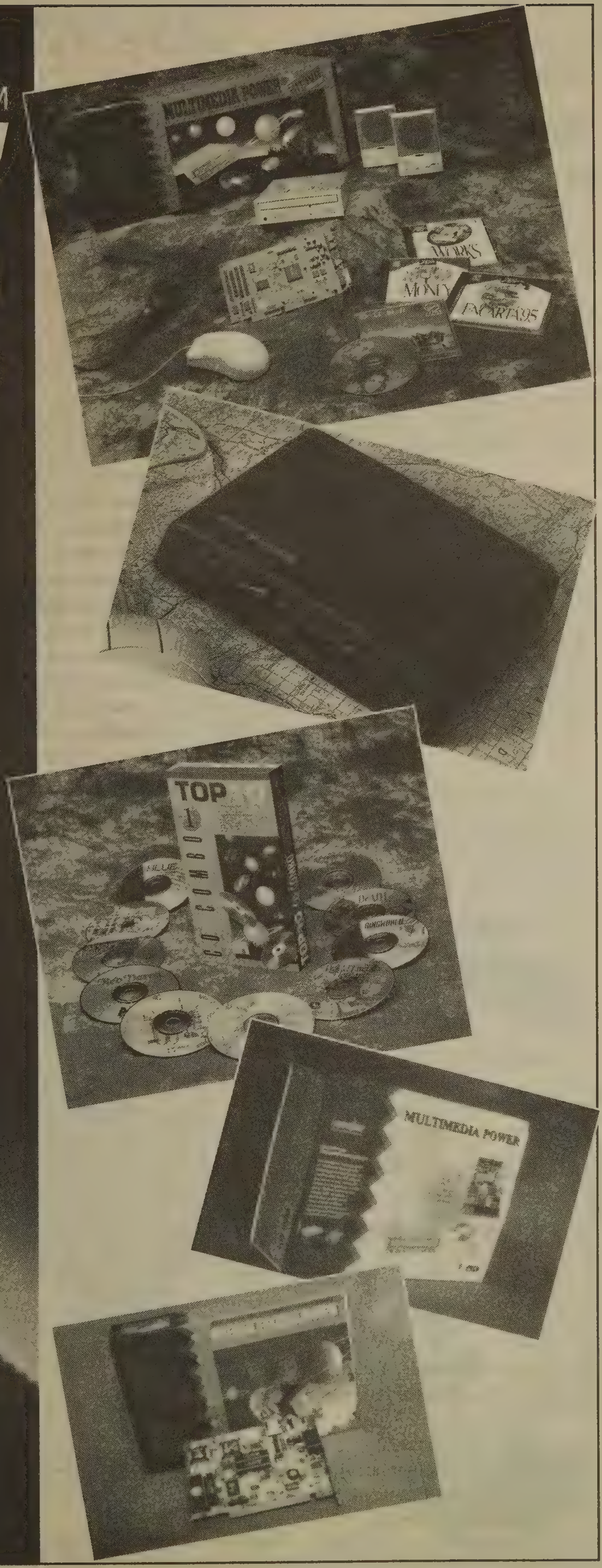
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GULCH GOSSIP *continued...*

MacroMorphedMedia

Tim Bigoness, until recently the publisher of *Morph's Outpost on the Digital Frontier*, is now with Macromedia as the manager of the Developer Program. He says his job is to "make people happy and give 'em what they want—just as I did with *Morph's* and Art-Teco." Meanwhile, rumours continue to circulate that *Morph's* is up for acquisition while Macromedia sends out tons of press releases about various new products, strategic alliances, and breakthroughs. Offhand, it looks to me like Macromedia is doing the right things and doing well by doing them.

Huckleberry Hike

Ed Severinghaus of BodySynth fame threw his annual Huckleberry Hike and Ice Cream Social at Point Reyes on August 19. I couldn't make it (No, you don't need to know about my personal life this month.) and also know that many of you weren't there because Ed reports that "sad to say most of my multimedia and performance art friends did not deign to attend this year." However, he agreed to contribute this report, saying, "If you really need material, I suppose you can use it. Heh!" Well, I don't need the material, but it amuses me even with its awful puns. First, Ed cops out in traditional Gulch Gossip fashion with "You will pardon me if I don't tell all the *juicy* personal stories, but actually I was so busy I hardly had time to spend 1.487 minutes with anybody." Ed then gets down to business, "We did have fun, most of the 95 of us! A record-breaking year, from berries by the gallon, to heat stroke, to number of hikers and number of BBQ'ers. Aside from some *berry* personal stuff, not much reached my ears. An enchanting woman named Eve helped out as my Official Apprentice Ice Cream Maker. Maybe that is news, if she likes me (and that has yet to be known). So now you know the gossip, such as it is. There were a number of pre-hike challenges, including my first experience with social politics. They wouldn't come because some friend of theirs who I know 'couldn't' come because her ex was coming and blah blah blah. Come to think of it there were actually three such conflicts this year. I think this crowd is getting too something or other… Or maybe people are finally deciding to tell me the truth about why they haven't been coming, wouldn't that be a wonder! (Not to be taken personally by you, just a speculation about why I am getting to know so much about other people's personal problems in this fashion.) All the news not fit to print! straight from the BerryMaster's Juicy Mouth!" Um, thanks, Ed!

Conflict Of Interest

Lastly, in the cause of full disclosure of potential journalistic bias, I must reveal that I've recently started working part-time for **Marc Canter's** Canter Technology. I'll be writing marketing materials, editing the manual for The MediaBand Construction Kit, working on the Web site, and doing whatever else requires my peculiar combination of skills. I'm most pleased by this opportunity to work with someone I genuinely consider to be among the industry's leading lights. If there's ever a conflict of interest between the roles of journalist and contractor, I'll reveal it again at the time—but, in the meantime, will continue to do just the same as I do now. ■

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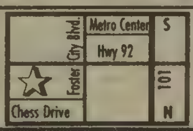

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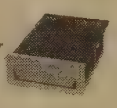

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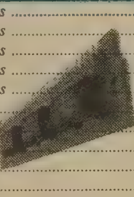

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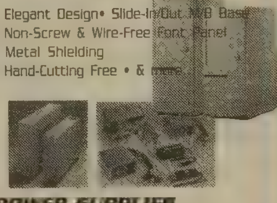

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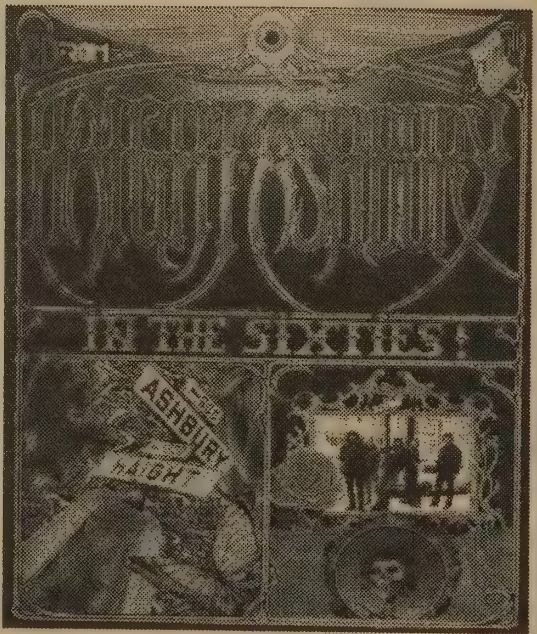
Haight-Ashbury In The Sixties! Offers Lessons About The State Of Multimedia Capabilities

Either Robin Williams is seriously exaggerating when he says, "If you remember the '60s, you weren't there"—or Allen Cohen, principal narrator of Rockument's *Haight-Ashbury in the Sixties!*, wasn't there. On this double CD-ROM title, Cohen remembers plenty of events, some well-known, some obscure, from that time and place. Cohen's standing for telling the tale is that he was founder and editor of the famed underground newspaper of the time, the *San Francisco Oracle*. These two discs contain plenty of documentary evidence that Cohen was indeed there, perhaps even that he inhaled or ingested.



Given its content, the issue of drug use is a subject that this title quite obviously cannot avoid. Actually, it pretty much welcomes the question. In fact, *Haight-Ashbury in the Sixties!* includes a range of opinions with both pro and con attitudes expressed. However, it's no stretch of the imagination to say that, overall, intelligent use of certain substances is viewed in a more than permissive light. It would be a stretch to say that the title itself openly advocates drug use, but there's certainly a sly, sometimes unashamed, acknowledgement of the enjoyment and potential benefits of cannabis, LSD, and other psychedelics. There's also some humourous commentary on what happens when a trip goes bad. A small amount of attention is paid to the negative effects of speed and heroin, although the finger of blame is not pointed at the government's role in the plague of destructive drugs that had such devastating effect on the Haight-Ashbury. In this day and age, any balanced or informed discussion of the use of psychedelics has been almost entirely shut out of the mainstream media. It's a vital sign of the cultural importance and increasing maturity of multimedia that such alternative views can be expressed.

Drug use is really only the tip of the iceberg when it comes to differing opinions about what happened in the Haight-Ashbury in the 1960s. Conservatives decry the events as the end of American culture as they knew it, while dyed-in-the-wool hippies believe that those same events heralded a world-saving expansion of human consciousness. Likewise, opinions about the contents of this title are likely to reflect more of the opinion-holder's background than any objective stance. It's also worth remembering that, whatever various media would have you believe, the changes of those years were not centered only on the Haight-Ashbury. The tide of youthful rebellion rose nearly simultaneously in many places and eventually swept through most of the globe, perhaps having further-reaching effects in countries such as Czechoslovakia than in the United States of America.

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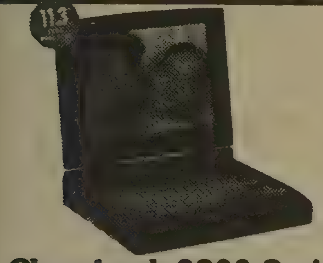

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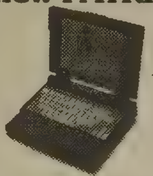

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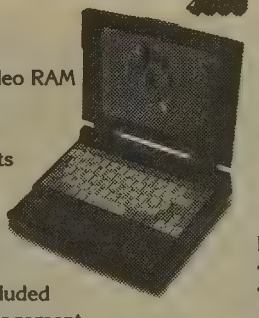

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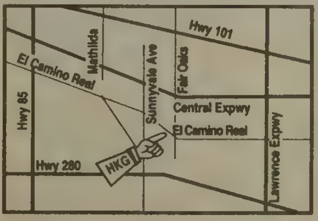

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MULTIMEDIA 101 *continued...*

Much of the strength of *Haight-Ashbury in the Sixties!* comes from Cohen's passionate feelings for his subject. It's a successful expression of his opinions and beliefs as well as his particular version of events. Equally as important, the title goes beyond point-and-click computer interactivity by engaging an open-minded user in actively and critically thinking about the subject matter—given the significance of the subject matter, there's plenty to think about.

One of the more significant differences between then and now is that in the 1960s information was considerably more scarce. An underground paper like the *San Francisco Oracle* was a genuinely big deal. Today, we're swamped by cheap desktop production and offset printing, not to mention the tsunami of information coming our way via the Internet and the Web, and the desperate need for alternative sources of information at the time is easy to forget. Another interesting aspect of the title is that Cohen makes a subtle but profound link between the chaotic layout and art of the *Oracle* and the nonlinear style of contemporary multimedia together with the libertarian attitude of today's cyber underground when he states, "We wanted to destroy the subtle military and industrial influence over our minds implied by the linear column and its hordes of marching letters and lines." One of the great untold stories of psychedelia—and the computer industry—is the immense impact psychedelics have had on the computer industry; definitely a story that has been politely ignored, if not swept under the rug. Finally, I could not help but be struck by how much psychedelic music has evolved over the years. Contemporary styles of psychedelic music (this year's hip genre, at least for the first six months, is trip-hop, but, in fact, there are many, many different expressions of musical psychedelia) are not only more sophisticated but are also more authentic, deeper, and wider-ranging than those of the 1960s.

I don't expect conservatives to agree, but *Haight-Ashbury in the Sixties!* should be in every high school classroom and library, both as a study aid to twentieth-century social history and as a good example of contemporary multimedia in its own right.

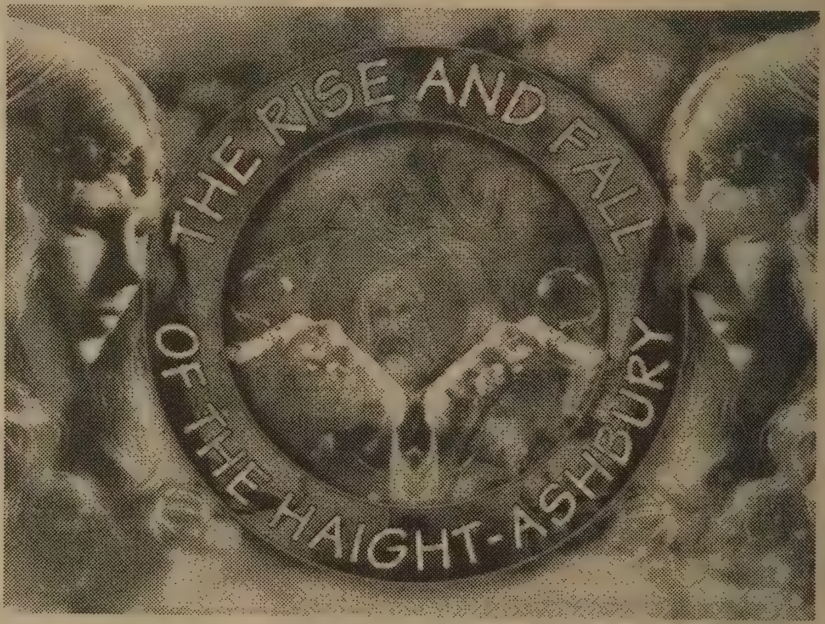
Besides that, it's visually striking and a lot of fun!

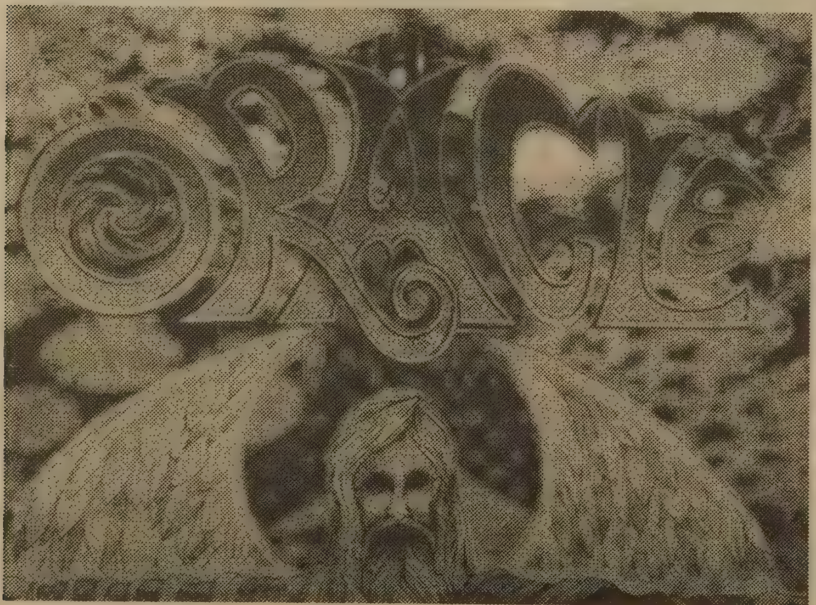
With the mid-August departure of Jerry Garcia from this plane, it's also worth noting that there's an enhanced poignancy to the nostalgia value of the title. It is not, however, a title about the Grateful Dead; it serves, instead, to root them in a particular milieu and explains, perhaps, the origins of the Dead's continuing appeal over thirty years of social and political change.

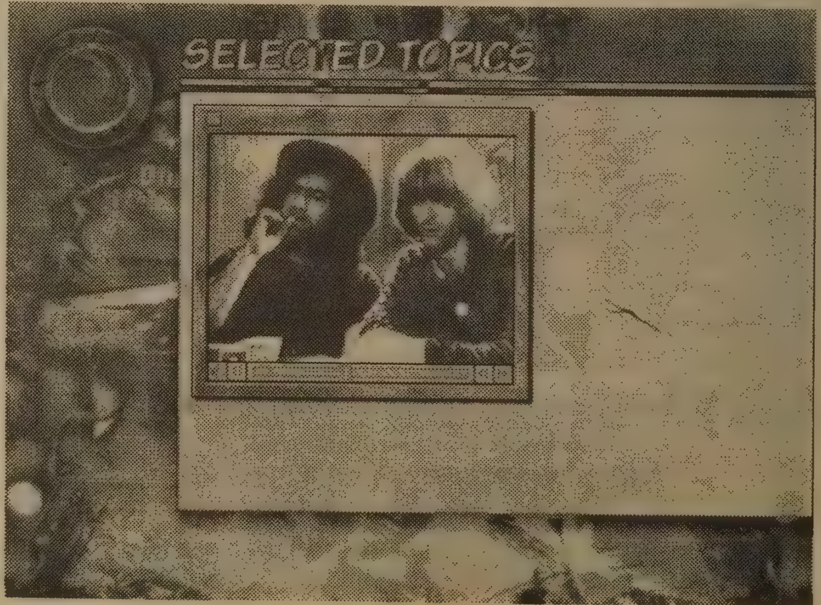
For the purposes of this column, *Haight-Ashbury in the Sixties!* offers a number of lessons about the current design and technical capabilities of multimedia.

TURN ON, TUNE IN, DROP OUT

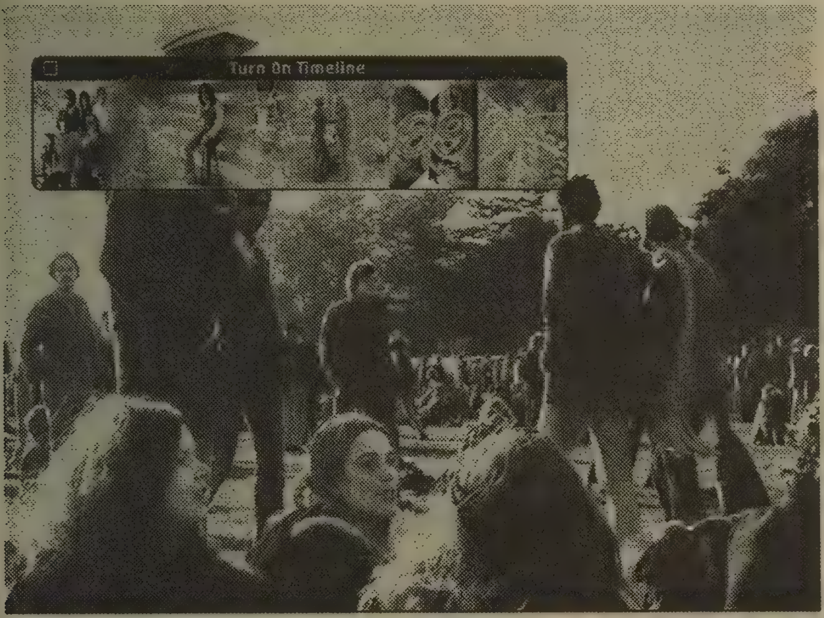
Ironically, one of the most notable features of *Haight-Ashbury in the Sixties!* is that it has a substantial linear component in the Turn On section, which is essentially a slide show narrated by Allen Cohen covering his experiences in the Haight-Ashbury editing the *Oracle*. However, there's also a truly random-access section to much of the same material in the "game" part of the title, Drop Out. The third section, Tune In, is

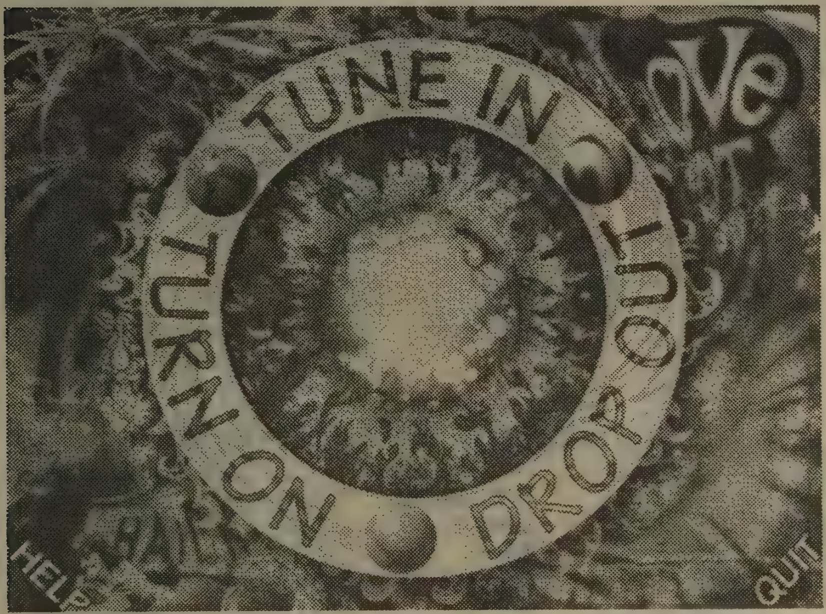






Clockwise from top right: opening screen of Turn On, Grateful Dead interview from Tune In, example of *San Francisco Oracle* art.





Clockwise from bottom left: home screen, timeline in Turn On, screen showing hidden navigational buttons.

basically a database way to get at all of the same material and more including, for example, five complete Grateful Dead songs, "White Rabbit" from Jefferson Airplane, and a previously unreleased live recording of Big Brother & the Holding Company with Janis Joplin, all with specially created accompanying videos.

However, the linear nature of the Turn On section is vital to conveying Cohen's point of view. His comment about "the military and industrial influence...implied by the linear column" ultimately refers to layout of type and graphics rather than the temporal dimension. The simple fact of the matter is that a narrative sequence requires a beginning, middle, and an end. How the events within that narrative are arranged can be manipulated by the narrator. He or she may fast forward or back, or jump cut as much as desired, but abdicating all responsibility for the temporal arrangement with a totally random or spatially accessed design defies basic human logic, cuts off the flow of ideas at the waist, and results in irritating and totally unsuccessful designs such as the *Prince Interactive* or *Bob Dylan: Highway 61 Interactive* titles. Tony Bove, Rockument's executive producer for *Haight-Ashbury in the Sixties!*, explains that a spatial design of walking up and down streets and looking in doors was considered for the title but was quickly rejected.

Haight-Ashbury in the Sixties! does, in fact, manage to attain authentic and useful random access, with minor qualifications, in several ways. Turn On is essentially split into scenes. You can jump from one to another sequentially either forwards or backwards through the use of rollover navigational controls on the left and right of the screen. In addition, through another rollover control, you can access a timeline that allows you to make bigger jumps into the future or past. The Tune In section also accesses each individual scene and allows you to reedit the scenes into your own sequences. As you watch Turn On, you can also call up the credits for all the different media in each scene from another rollover spot and explore tangents to linked material from the content items themselves when they flash.

But for truly random access, go to the Drop Out "game." This is really a game of pure chance, akin to Chutes and Ladders (Snakes and Ladders to English readers), relying on the electronic equivalent of the roll of the dice rather than any skill or twitchiness. With each turn, you get a short excerpt from Cohen's narrative, sometimes slightly reedited to suit the game, as well as moving your marker around the board and points in various attributes such as Hipness, Spirituality, Love, or Food and Shelter. If you've already seen the clip, you can click it off and still get your points. Bove points out that, besides the game aspect, the purpose of this section is to introduce the subject matter in an amusing and informal way. He said, "We were trying to throw a party!" and Turn On could be a lot of fun in a party situation; it's certainly a complete stoner's no-brainer!

TECHNICAL GLITCHES MEET DESIGN FLAWS

The linearity of Turn On is also its Achilles heel when the title jams up as it does at several points in Cohen's narrative if you just have it running from beginning to end. When that happens, your best option is to quit and restart. But how do you get back to where you were? There are no save or bookmark functions, which probably wouldn't help you

continued on page 324

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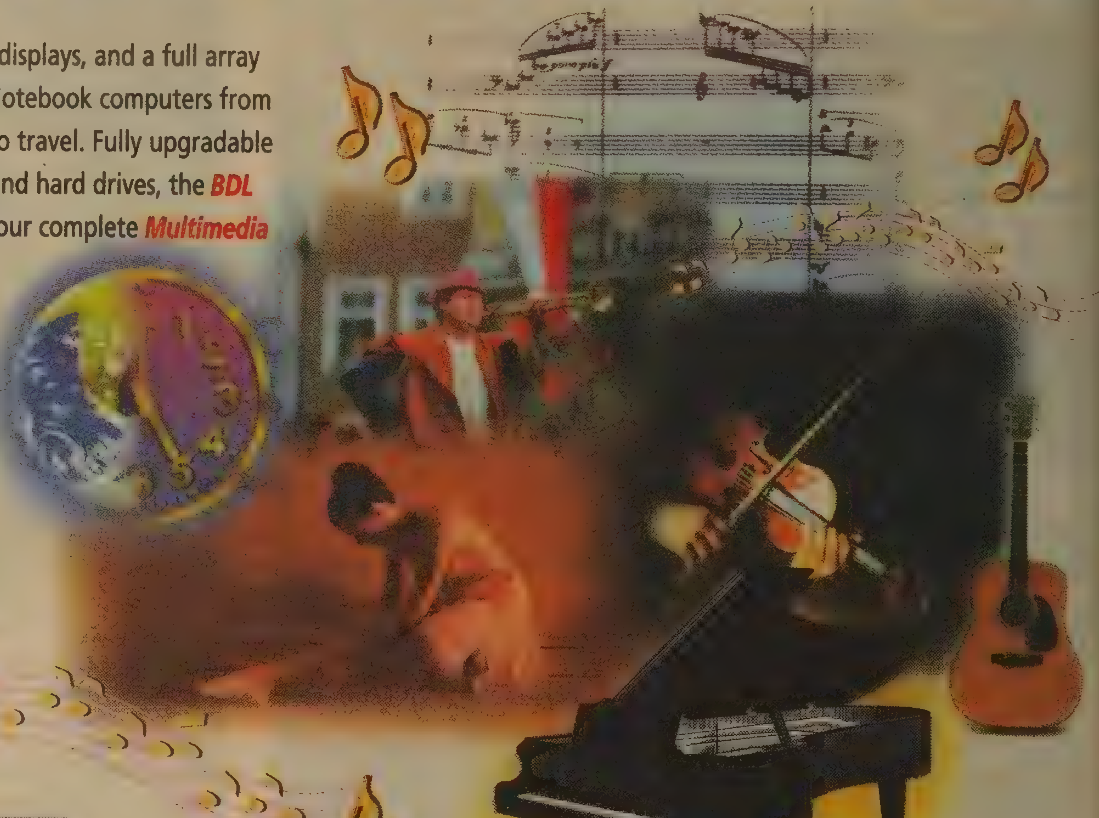

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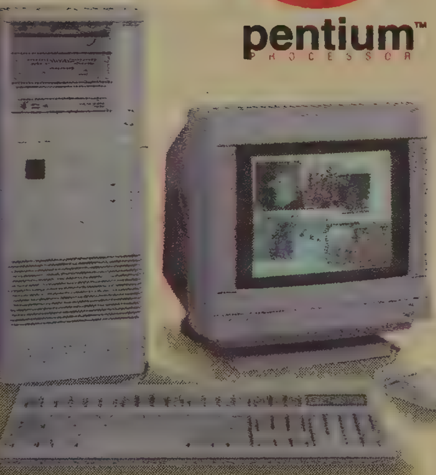

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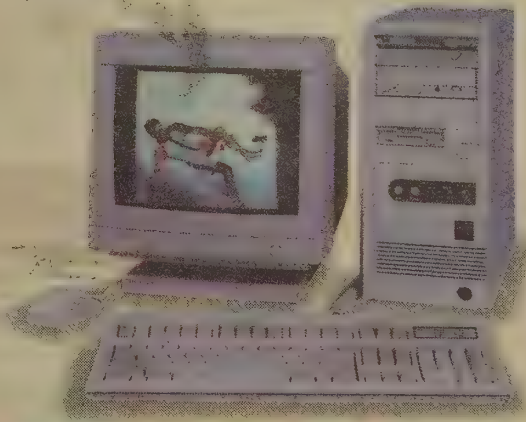

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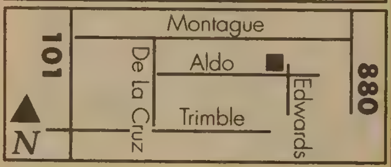

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- ▲ **Fujitsu** 101 Enhanced Keyboard
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- **ZIF Socket** (Zero Insertion Force)
- **256K Write Back Static Cache**
- **8MB** RAM Installed **High Speed 60ns**
- NEC 1.44MB Drive
- **Western Digital 850MB Enhanced IDE** Hard Drive 10ms
- On-Board PCI Bus Master IDE and Super Multi-I/O (UARTs)
- **Spider Tarantula Lite Graphics w/1MB RAM (exp. to 2MB)**
- **AWARD WINNING "BYTE" BEST VALUE KFC 15"** Non-Interlaced Monitor .28 **LCD Digital Control & EPA "Energy-Star" (1280x1024)**
- 101 Enhanced Keyboard
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- **Free Microsoft Mouse v2.0 Ergonomic**
- **9 CD Titles**
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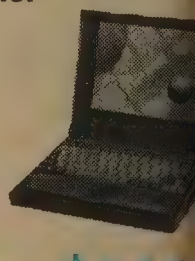

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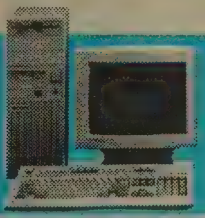

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VESA SVGA Card 1MB	75
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Diamond Stealth 24 ISA	95
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Diamond Stealth 64 PCI/VLB 1M/2M DRAM	120/165
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VESA Enhanced IDE w/16550 UART	35
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Adaptec SCSI 1542CF	175
Adaptec 2940 PCI SCSI	195
Bus Logic KT-946C PCI SCSI	215

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540MB	180
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486DX4-100MHz w/CPU	210
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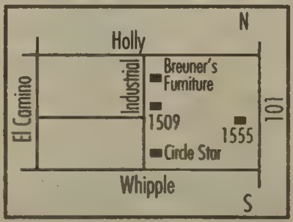

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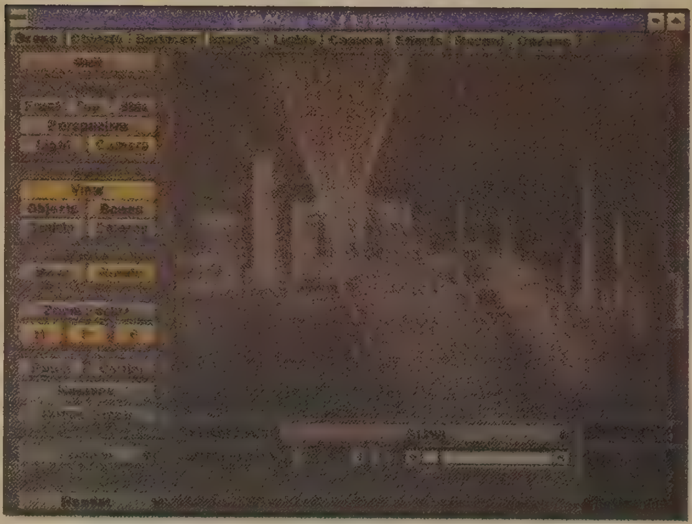
BY DOUGLAS J. NAKAKIHARA

You used to need the Toaster to run LightWave and an Amiga to run the Toaster. Now you don't need either; LightWave 3D for the PC runs in native mode under Windows NT, but is compatible with Windows 3.1 as a Win32 application. Moreover, it is compiled for Intel, DEC Alpha, and MIPS CPUs.

LightWave is a 3-D animation program made up of two separate programs: Layout and Modeler. Modeler is used to create objects in three-dimensional space. Layout is used to place objects in a scene with lights and a camera. Then, from the camera's point of view, an animation is created frame by frame.

LightWave is important because it is affordable, yet is used on many major television programs such as *seaQuest DSV*, *Babylon 5*, *Star Trek: The Next Generation* and *Voyager*, *Sliders*, *Hercules*, *Unsolved Mysteries*, *The Tonight Show*, *Robocop*, *VR5*, and *Weird Science*. It is also beginning to make its way into film, previously the exclusive domain of SGI machines. LightWave animations can also be seen on countless television commercials, music videos, cable TV programs, corporate videos, and video games.



LightWave comes to Windows.

PC LIGHTWAVE 3D 4.0

PC LightWave is currently a "prerelease," therefore there will be some differences between it and the final release due out very soon.

NewTek's goal is to allow LightWave files to be interchangeable between platforms—you could create scene and object files at work on a PC and take them home and work on them on your Amiga. For the most part this works, but you'll have to keep filename limitations in mind. Amiga LightWave 4.0 is not available yet, but I have successfully used objects in Amiga LightWave 3.5 created with PC Modeler.

A big difference right off the bat is the ability to run Layout and Modeler on high-resolution screens. I used a 1024 x 768 screen. (My test machine was a 486DX-66 with 16MB of RAM, ATI mach32 graphics board, and Windows 3.1.) You get much more detail on the screen compared to the Amiga's standard 640 x 400 screen. Also, the PC's high-res mouse generally makes detailed work with individual points much easier. Additionally, if you're used to working with LightWave from the Toaster with an interlaced Amiga display, the rock-solid RGB display will be a sight for sore eyes. Even using a deinterlaced Amiga display, at the same resolution the PC's display is much crisper than the Amiga's.

Amiga owners with 24-bit display cards are anxiously anticipating the possibility of also running LightWave on higher-resolution

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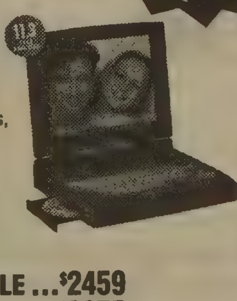

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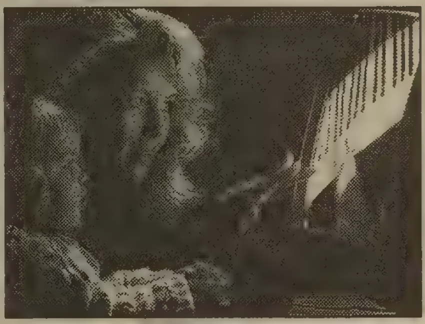

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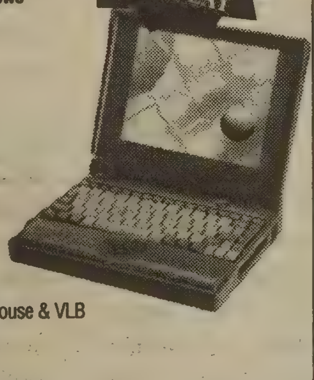

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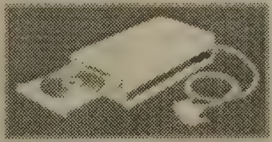

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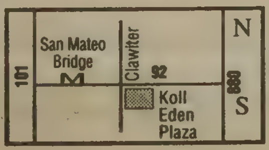

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screens. (Currently there are compatibility problems with these cards and Amiga LightWave 3.5.) I have heard that Amiga LightWave 4.0 should work better with these cards, so I am optimistic.

The downside of using a high-resolution screen is that your computer now has to push around more pixels. This takes its toll on performance. Layout preview animations, for example, were sluggish. Things work better at 640 x 480, but you give up the advantages of the larger screen. Of course, a faster CPU and graphics card would help.

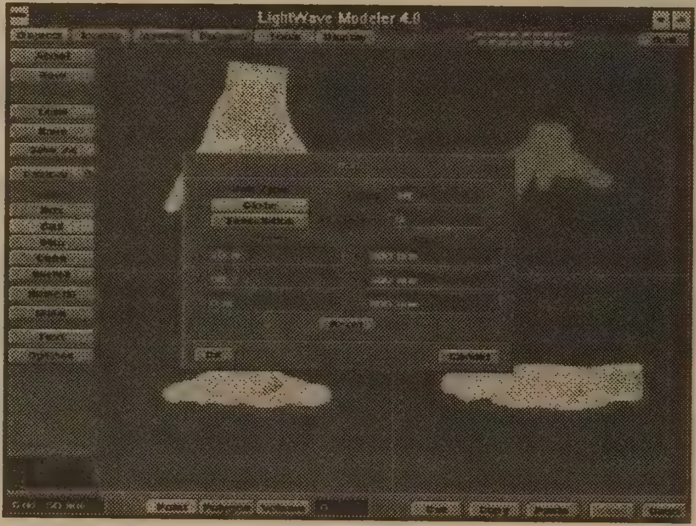
Modeler's display update was particularly slow. Dragging points, stretching objects, using a background image, etc. were all difficult tasks because of the tardiness of the display refresh. Interestingly, this was true even with a lower-resolution screen.

There is also no "busy" pointer. If LightWave is occupied doing something, there is absolutely no indication of this. It often seems like the program has locked up.

Currently, Layout and Modeler operate as totally independent programs, with no ability to import and export objects between the two programs, as you can with the Amiga LightWave. Another thing I sorely missed was the Toaster output of rendered frames. All my stuff usually ends up on videotape, and there is something comforting about seeing the rendered frames on the Toaster's video output.

LAYOUT

A new feature in Layout is the ability to select an object by shift-clicking its pivot point. You can also change the color used for an object from the Scenes panel. There are two new pop-up requestors that will independently make all objects, lights, or bones visible or hidden. If you've ever had to toggle the visibility of a slew of lights, you'll appreciate this feature. (I'm working on a project now that has nearly one hundred lights in each of four scenes!)



The Windows version can display higher res images than the Amiga.

INVERSE KINEMATICS

Inverse Kinematics (IK) works in conjunction with a hierarchical set of objects. You can position the last object in the chain, and all of the other objects will automatically fall into place. In the prerelease you can only define axis limits and the "goal" object, usually a null object.

The final release will include heading, pitch, and bank limits which will allow much more natural movements. So if you were setting up an arm, you could make it so the forearm could not be moved farther than it's joint would physically allow.

OBJECTS AND SURFACES

Individual objects can now be ignored when ray tracing. This could be a real time saver if you have a lot of nonessential objects in your scene.

The Surfaces panel now features a surface preview. Multiple thumbnail windows appear and you can apply the present surface setting to a default sphere. When you "render" a new surface, existing thumbnails move up and the new one is added to the bottom window. This is a very rough preview, but should "put you in the ballpark" much quicker.

There have been some tremendous improvements for reflections. Often, to get realistic reflections on objects, you had to enclose your scene in a sphere or have a flat polygon in the background. You now have the optional ability to automatically reflect the backdrop or an imaginary spherical reflection, with or without the effects of raytracing.

The new Shadow Alpha option will help facilitate realistic shadows where LightWave graphics are composited over video. The final release will also include a new glow surface attribute, which creates a glowing halo effect. There are related global parameters in the Effects panel to set glow intensity and radius.

LIGHTS, CAMERA, ...

You can now globally set an intensity envelope for all lens flares in a scene. This works as a percentage of existing lens flare intensity values. Lens flare options have been enhanced to allow greater control over anamorphic distortion and streaks.

In the Camera panel, the image compositing interface has been improved and now includes a pop-up display of selected images. An additional nonlinear fog type has been added.

FILENAMING

Generally on the PC, an image's filename extension tells a program the file format. So a

Loose Ends

On a somewhat related note: I was just informed that an animation I worked on and wrote about last November is a finalist for a "Wavey" award, sponsored by NewTek and *Video Toaster User* magazine. The ceremony will take place during the week of SIGGRAPH.

My promised review of NewTek's nonlinear editing product, the VideoToaster Flyer, will happen eventually. I have the board, but didn't receive all of the cabling.

Also, last month I indicated that using AGA Preview Anims in the new Toaster 4.0 would be a great way to make demo tapes of LightWave animations. Unfortunately, I have discovered that how—and if—they will be implemented in the final release is up in the air. NewTek has been concentrating on the Flyer software, for which Preview Anims are not necessary.

NewTek also tells me that AmigaDOS 3.1 is not compatible with their software. They recommend 3.0 for 4000s and 2.1 for all others. (Note: If you are an A3000 owner with 3.1 ROMs, forget about using AmigaDOS 3.0 disks from a 4000 or 1200. I've tried it and it doesn't work.)

Finally, it seems the $3500 street price announced last month for the Amiga 4000T was premature. The new price is rumoured to be around $2700. ■

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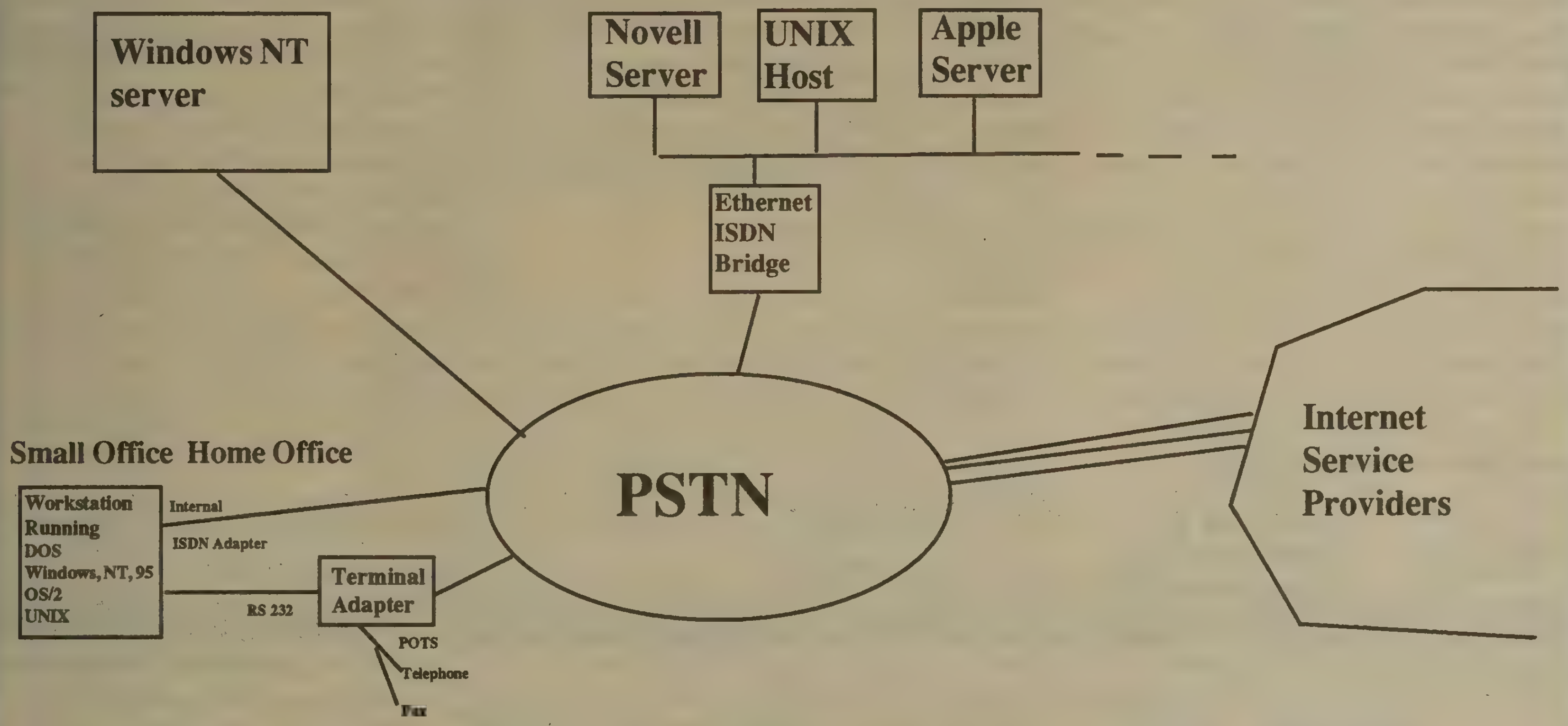
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JPEG file must end with .JPG. (Amiga programs read the file header of image files and determine what they are.) For this reason, you now must designate the rendered image filename convention: either NAME001, NAME001.xxx, NAME0001, or NAME0001.xxx, where "xxx" is the file type. The PC formats (i.e., ".xxx") can cause some problems with Amiga programs that expect the numeric sequence to be at the very end of a filename. Fortunately a few renaming utilities have popped up to help overcome this problem.

PLUG-INS

The biggest feature, which is totally unfulfilled in the prerelease, is plug-ins. LightWave contains "hooks" that allow external programs to be integrated into it. To a limited extent this has existed in the Amiga version using ARexx.

However, the possibilities with plug-ins go far beyond that. NewTek is hoping that developers will jump on this feature like others have done with Adobe Photoshop. Some types of plug-ins are supposed to be included in the final release.

Currently there is nothing comparable to the Amiga's ARexx language. So what about all those wonderful Modeler macros you've learned to depend on? Well, NewTek plans to implement them as plug-ins. Basically they become mini-applications.

RESOURCES:

LightWave 3D, PC version, $995
NewTek
1201 South West Executive Dr.
Topeka, KS 66615
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MODELER

Modeler now features multilevel undo and redo. (I really wish Layout would get this.) The Bevel requestor has been modified and two buttons have been added: Inner and Outer. The Outer setting has the same effect as entering negative numbers in the Inset and Shift fields. A new feature also lets you name the added bevel polygons. This is handy because you often want to be able to independently turn smoothing on for this surface. For Metaform, a smoothing angle option has been added.

When you start a new Modeler session, you can elect to clear existing data only. This is great because it only removes object data from the layers. All other settings are untouched. Another nice new feature is the ability to assign window-views to the numeric keypad.

An interesting change is that measurement units are now entered into the numeric fields. The default is either meters or feet, but you can mix the two conventions. You can even enter formulas—for example: 2m/4'+5.2ft-42cm. I found that really complex equations don't always arrive at the right answer, and sometimes "ft" or "in" works better than single or

continued on page 323

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New Games Advance The Edge

A Preview Of Holiday Offerings

Game development is the place to look if you want to see where multimedia is going.

Recently I had the chance to see a Christmas preview of products in pre-release and alpha versions—the newest of the new. Sponsored by Virgin Interactive Entertainment, developer-publishers who also umbrella titles from a large number of affiliate label independent developers from the US and the UK, the preview disc offered a wide enough range to be representative of industry trends.

Media trends? Of the twenty or so titles I saw in development only one—Cinematronix's *Tri-Tryst*—was being issued on a floppy disk version. Everything else was on optical formats or cartridge; CD-ROMs for Mac and PC and Sony Playstation, 3DO, Sega Saturn, Sega Genesis, Sega 32X, or Super NES. Several titles are in two-, three-, or four-disc packages. There are more hybrid discs being published. I think this speaks for a large and growing installed user base of CD-ROM players.

Many of the games are exhibiting next-generation graphics: more 3-D rendering, modeling, and texture mapping for greater expressive realism. Three-D human figures are becoming dependably naturalistic, allowing them to take center stage. Artificial intelligence (AI) is becoming more common in the programming mix. Game animation is beginning to equal and rival screen animation. More and more live video sequences are being included in different kinds of games.

Above all, there are more different kinds of online networked games than I've seen before. Here are just a few of these interesting new game titles.

Promised Land

FUTURE GAMES

Music itself is also being incorporated into more multimedia titles, as musicians have become increasingly collaborative in multimedia.

Promised Land showcases the heavy metal band Queensryche in a hybrid two-CD set—one disc features the game, and the other the two thousand photos and documentary footage of concerts and interviews with

BY TONY REVEAUX

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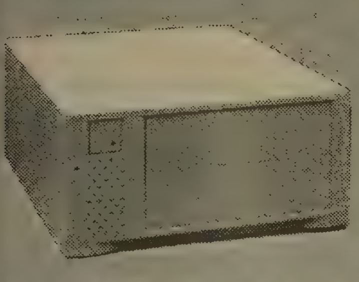

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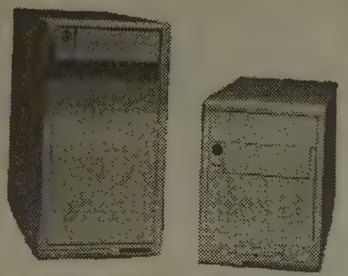

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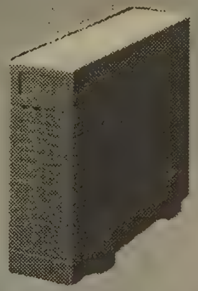

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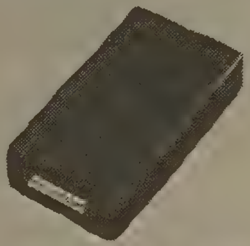

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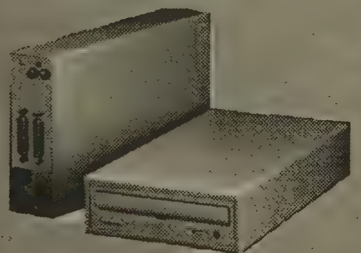

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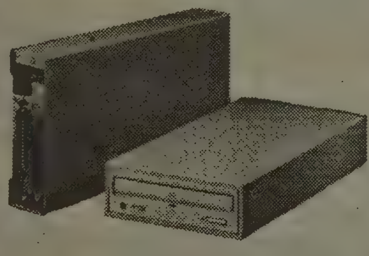

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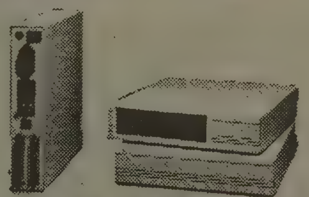

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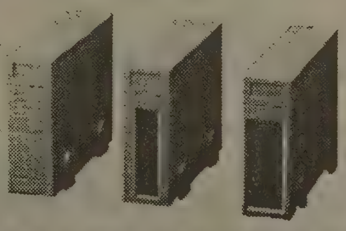

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NEW GAMES *continued...*

the band and music tracks. It was produced by David Traub's Santa Cruz-based team for EMI Records, and authored in Apple MediaTool.

A different artist was assigned to each band member. They spent time together plumbing the psyche, imagination, values, and dreams of the musician. The result is a multimedia tour of five very different fantastic, navigable, Myst-like environments that are like four-dimensional rock posters.

A complex five-level game thread runs through *Promised Land.* According to the producers, users can experience up to fifty hours of game play wending their way through the 3-D environments. Online samples and support will be available via the Queensryche site on the Internet.

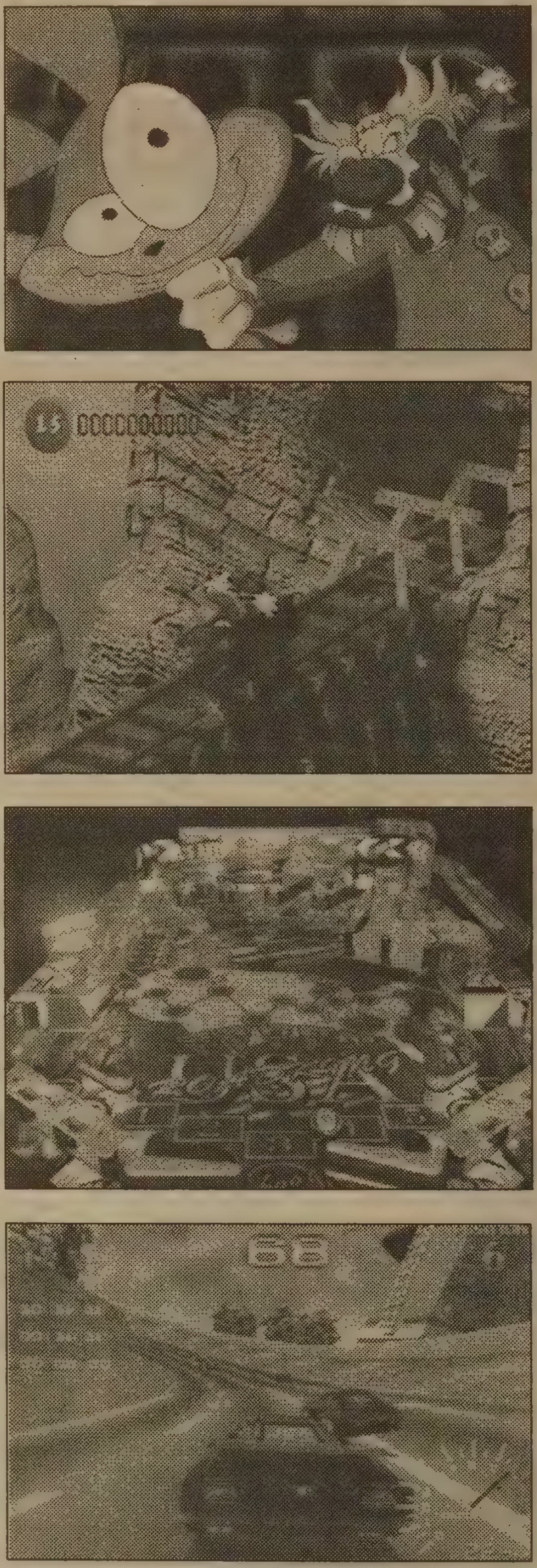
Virgin's sophisticated in-house production teams are readying two smashingly advanced animation-based games. I couldn't get over the high-quality, Disney-level character animation I saw in the tests of *Spot Goes to Hollywood.* Based on the red POG-in-sunglasses disk character of 7UP commercial fame, it is a kids' Mario/Sonic multilevel chase-'em-race-'em, but the richness and expressive humor are a delight to see. The Spot animation team of eighteen is the largest in the industry. Too bad it is just for game machines and not PCs.

ToonStruck stars Christopher Lloyd as an animator whose rebellion unleashes the dark side of his subconscious, which manifests itself in a twisted, surreal world where Lloyd is the victim of mad and aggressive cartoon characters. Only by solving the problems of this hysterically out-of-control world can he return to his own plane. This is an adult-level Roger Rabbit combination of live action video incorporated into fifty thousand frames of computer animation. Art and design are being done at Virgin, and the animation in Canada and the Far East. The twenty to fifty hours of playtime involve fifty different characters, one hundred locations, and many mini-games.

NEW DIMENSIONS

What you'll see on your monitor will look even better than last year's games.

Terra Nova is a first-person futuristic combat game displaying a full outdoor renderer. Cloud layers are independently animated. Instead of putting haze in the background to simulate depth, this game lets you go in every possible dimension, as the topography is fully extended and navigable. Different planet landscapes have matching gravity physics and atmospheric densities. The enemy has AI, learning about your behavior and changing tactics accordingly.



Top to bottom: ToonStruck; Spot Goes to Hollywood; Hyper 3-D Pinball; Screamer.

Cyberia2 from Xatrix has one of the most powerful real-time 3-D graphics engines, and the most realistic human figures. *Alien Alliance* has the most beautifully done texturing and mapping, giving the other-worldly ships, alien characters, and environments a *Babylon 5* quality of professionalism and sense of wonder. And of course, Trilobyte's *The 11th Hour: The Sequel to the 7th Guest* is render city. The original 3-D graphic structure files of *The 7th Guest* have been rendered and texture mapped to present the Stauf mansion as suffering the decayed neglect of decades. The four-disc package has sixty minutes of live-action video and smoother 3-D graphics than the original.

Hyper 3-D Pinball is so realistic in its action and gleaming machine-like finish and paint job that I got in trouble shaking the monitor to boost a flip. You can shift to different points of view on the board during the play. The only thing missing is a POV from the ball's-eye-view. Everybody sweated bullets playing *Screamer.* This Pentium-driven road racer sim has such good on-the-fly polygon rendering that it gives you a real tactile, butt-in-a-booth arcade experience from the desktop.

NETWORKING GAMES RULE

In sixty years Monopoly has become the most popular board game in the world, marketed in over forty languages. Many countries have different versions of the familiar terrain.

Virtual Monopoly on CD-ROM re-creates the board game for the computer screen. It will support networks and modem playing and is playable over the Internet. The first release will contain four languages: English, American English, French, and German. Players can play simultaneously online, with the programs translating on the fly. There is actually a limited amount of text in Monopoly, and that can be stored, sorted, and translated. Money is coded in base units of one currency denomination, so that prices translate proportionately. Each property has 3-D animation scenes that express the character and status of the address, and sound effects and music accompany all of the actions. There will be a Monopoly page on the Internet where players can get information and connect with other players.

The game *Screamer* can link up to six players via a network. *Indycar Racing II* can host up to thirty-one players competing on Papyrus's Multi-

continued on page 324

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365MB	30365LTS	11ms	SCSI	$93.50 . $145
730MB	30730LTS	11ms	SCSI	$220 ... $270

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840MB	30850TRA	14ms	IDE	$190 .... $NA
420MB	30420TRS	14ms	SCSI	$164 ... $214
840MB	30850TRS	14ms	SCSI	$233 ... $283

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Atlas Series-(7200RPM/1MB Cache/5 Yr Warranty)

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- 3 YEAR WARRANTY
- 10.5ms FAST, 5400 RPM.
- 512K Cache Buffer
- 800,000 Hours MTBF

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728MB	94G2647	12ms	3.5"x1"	$229 ... $279
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2.3GB	94G3192	7.5ms	7200RPM	$999 .. $1049
4.3GB	94G3196	Ultrastar	7200RPM	$1396 $1447
5.1GB	06H8431	8ms	Audio Video	$1827 . $1877
5.3GB	94G3787	7.5ms	"NEW"	$1790 $1840

Maxtor

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540MB	7540AV	12ms	3.5"x1"	$159
850MB	7850AV	12ms	3.5"x1"	$189
1.2GB	71260A	<12ms	3.5"x1"	$246
1.6GB	71626A	<12ms	3.5"x1"	$416

Seagate

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- 512K Cache Buffer
- 800,000 Hours MTBF

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ENHANCED IDE DRIVES

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720MB	ST3780A	12ms	Fast ATA-2	$179
850MB	ST5850A	12ms	Fast ATA-2	$209
1.0GB	ST31220A	12ms	Fast ATA-2	$268

FAST SCSI-2 DRIVES

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4.3GB	ST15230N	9ms	3.5"	$989 .. $1035

Barracuda Series-(7200RPM/8ms Avg Seek/5Yr Wr)

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CONNER

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- <15ms Average Seek Time

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- 300,000 Hours MTBF

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4.0GB	MC3243	8.5ms	3.5"	$1222 . $1272
9.1GB	MC1991	11ms	5.25"	$1925 $1999

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1.75GB	MC2217AV	10ms	3.5"	$759 ... $799
2.0GB	MC4221AV	8.5ms	3.5"x1"	$924 ... $974
3.0GB	MC1936AV	13ms	5.25"	$829 ... $929
4.0GB	MC3243AV	8.5ms	3.5"	$1329 .. $1379
9.1GB	MC1991AV	11ms	5.25"	$2159 . $2259

FUJITSU

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PicoBird FAST SCSI-2

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HEWLETT PACKARD

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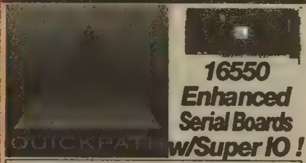

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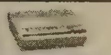

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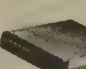

Supra Corporation

14.4	Express Plus for PC Int/Ext	$82/$94
28.8	For PC (V.34) Int/Ext	$170 $192
14.4LC	EXT for Mac w/SW & Cable	$108
28.8	EXT for Mac V.34 w/SW & Cable	$208

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4.3GB	ST15230W	9ms	3.5"	$1059	$1259
4.3GB	ST15150W	8ms	3.5"	$1449	$1649
9.0GB	ST410800W	11ms	5.25"	$2259	$2559

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4.3GB	XP34300W	8ms	3.5"	$1399 . $1599

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4x3/60-70ns	4MB 3 Chip 30 Pin 60 or 70ns	$Call
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1x32/60-70ns	4MB 72 Pin 60 or 70ns No Parity	$Call
2x36/60-70ns	8MB 72 Pin 60 or 70ns w/Parity	$Call
2x32/60-70ns	8MB 72 Pin 60 or 70ns No Parity	$Call
4x36/60-70ns	16MB 72 Pin 60 or 70ns w/Parity	$Call
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adaptec has released a pocket size serial port. the AIRPORT series. APA9310 $ 79.
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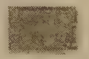

KT445C	32-Bit VLB Fast SCSI-2 KIT	$187
KT545C	16-Bit ISABusMaster Fast SCSI-2 KIT	$205
KT742A	32-Bit EISA SCSI-2 KIT	$264
KT747C	32-Bit EISA Fast SCSI-2 KIT	$298
BT757S	32-Bit EISA Fast Wide SCSI Card	$322
SW-190	Software Drivers for BT757S	$35
KT946C	32-Bit PCI Fast SCSI-2 KIT	$219
KT956C	32-Bit PCI Fast WideSCSI-2 KIT	$255

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PM2122/90	32 Bit EISA *High Performance*	$394
PM2122/95	32 Bit EISA *High Performance*	$419
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CM4000	Caching Module for SmartCache	$369

qlogic

Fast! SCSI-2 CONTROLLERS

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QLISA	16-Bit ISA No Floppy Support.	$97
QLISA/FL	16-Bit ISA-FL	$110
QLVLB/FL	32-Bit VLB-FL	$189
QLEISA/FL	32-Bit EISA-FL	$195
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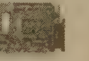
QLPCI-B	32-Bit PCI Basic Entry Level	$111
QLPCI-10	32-Bit IQ-PCI Model 10 Narrow	$187
QLPCI-W	32-Bit IQ-PCI Wide SCSI-3	$284

FUTURE DOMAIN



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Internal SCSI to External SCSI Cable $19

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- Auto IDE for easy setup.
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- Disk Mirroring for 100% disk fault tolerance.

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EIDEMAX	16 Bit ISACoExist w/BIOS up to 8.4GB	$25
EIDE4030+	32Bit VLBCaching 4HD+1 ATAPI CD-Rom	$12
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DC540	BusMaster PCI SCSI WIDE(noCable)	$178

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200	16Bit ISA 2HD/2FD Controller w/Cables	$12
211	16Bit ISA 2HD/2FD w/2Serial\1Par\1Game	$17
243	32Bit VLB 2H/2F 2S/1P/1G E-IDE	$26
400	16Bit ISA 2HD/2FD 2-16550S/1EPP/1G	$19
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2130	32Bit E-IDE PCI	$19
2183	16Bit IDE CD-ROM Controller	$10
2278E	32Bit VLB w/MultiFunction 16550 I/O	$27
2280H	16Bit ISA IDE Super 16550 I/O 2S/1P/1G	$19

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- One Data Cartridge
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External Kit $929

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2501K	Complete Kit for PC	$549/$599
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4200C	4GB up to 28MB/min w/Comp	$777/$827
8205XL	3.5-7GB up to32MB/min w/Comp	$1218/$1318
8505XLi	7-14GB up to 60MB/min w/Comp	$1827/$1927
EXB-BKT	Exabyte 5.25" Bracket for 3.5" Units	$20

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35480A	4-8GB 3.5" up to 732kb/sec DDS	$798/$848
C1533A	4-8GB HW DataComp. DDS-2	$1059/$1159
C1553A	24-48GB 6-Cart Autoloader cap.	$2088/$2119
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2150S	250MB	112KB/sec	$295	$345
2525S	525MB	200KB/sec	$455	$509

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4320NT	2GB up to 11MB/min - INT/EXT	$755/$809
4324NP	4GB Turbo-22MB/min 1MB Cache- INT	$797
4326NP	4-8GB 5MB/sec 1MB Cache - INT	$877
4352XP	4-8GB DAT SCSI-2 w/Data Comp- EXT	$1135
4584NP	Int 16GB (Auto Loader DAT)	$2168

CONNER TAPE•STOR™

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TS850P	850MB (QIC WIDE) Parallel Port	$331
TS1700	1.7GB (QIC WIDE)-w/Floppy Cont	$221
TS4000A	4.0GB (QIC WIDE)-IDE w/Card	$474
TS4000	4.0GB (QIC WIDE)-SCSI	$475
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T1000	800MB HP Colorado TRAVAN	$182
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PD60	2-4GB SCSI-2 DAT *NEW*	$995/$1089

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JT25	680MB TRAKKER 700	$322

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4mm DAT SCSI Series

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51000HT	1.2GB	17.1 MB/min	$519/$699
9500DC	5-10GB	36-72 MB/min	$818/$999

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C2550A	1.3GB 5.25" External	$2349
C1100A	20GB Ext Juke Box (20XT)	$4589
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External with 230MB Cart for PC	$569
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EXTERNAL w/Software,Cable & Cart for MAC	$575

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The Next Generation of the 1st Portable Optical Drive

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230PCAN	Portable for PC (no Interface)	$696
Pak-Travel	Battery,charger & travel case	$105

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1.3GB Optical Hard Drive Storage System

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1.3 PCi	Internal w/Adaptec Interface	$1729

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540MB	20540EUA	17ms	IDE	$369
810MB	20810EUA	17ms	IDE	$419
1.08GB	21080EUA	17ms	IDE	$469
341MB	DY341S	17ms	SCSI	$229
514MB	DY514S	17ms	SCSI	$320

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352MB	MK1824FCV	13ms	12.7mm	$265
540MB	MK1924FCV	13ms	12.7mm	$369
810MB	MK1926FCV	13ms	12.7mm	$499
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Maxell/3M/Sony	90 Meter	$15/$65
Fuji-DG90M	90 Meter	$13/$55
Sony/HP	120 Meter(DDS-2)	$29/$139
4mm Cleaning Cartridge		**$20/$95**

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Exabyte/Sony	160 Meter XL up to 7GB	$29/$140

Mini Data Carts

Sony	QIC-WIDE QW5122Fup to420MB	$20/$95
Sony	QIC-WIDE QW3010XLFup to850MB	$26/$125
Sony	QIC-WIDE QW3080XLFup to4GB	$33/$160
3M	DC2750/MC3000 (750MB)	$28/$135
EXABYTE	DC2750/MC3000 (750MB)	$30/$145
EXABYTE	MC3000XL (1GB)	$39/$190
3M	MC3000XL (1GB)	$35/$168
3M	MC3000XL Formatted	$40/$190
Sony	QD2120 QIC80 up to250MB	$22/$105
Sony	QD2120 unformatted up to250MB	$19/$90
3M	DC2120 Ximat up 250MB	$17/$79
3M	DC2120XL Ximat up 350MB	$25/$120
Maxell	DC2120 unformatted tapes	$15/$69
Maxell	DC2120 QIC 80 formatted	$18/$85
Maxell	2120 Cleaning Kit	$22/$100
GIGATEK	DC2120 QIC80 up to250MB	$15/$69
GIGATEK	DC2120XL up to350MB	$22/$104

1/4" Data Carts

		Ea./5Pak
Sony	QD6150 - 150MB	$17/$79
Sony	QD6250 - 250 MB	$23/$104
Sony	QD6525 - 525 MB	$29/$140
3M/Maxell	DC6150 - 150MB	$16/$75
3M/Maxell	DC6250 - 250MB	$22/$99
3M/Maxell	DC6525 - 525MB	$28/$135
GIGATEK	DC6150 - 150MB	$14/$65
GIGATEK	DC6250 - 250MB	$19/$90
GIGATEK	DC6525 - 525MB	$24/$109
3M	Magnus 1.2 - 1.2 GB	$45/$215
3M	Magnus 2.0 - 2.0 GB	$59/$285
GIGATEK	DC9120 - 1.2GB	$45/$215
GIGATEK	DC9200 - 2.0GB	$59/$285
Maxell	DC-9135 - 1.3 GB	$49/$235

3.5" Optical Carts

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3M/Ricoh	128MB 512 bytes/sec	$30/$140
Verbatim/Maxell	230MB 512 bytes/sec	$47/$219
FUJITSU	230MB 512 bytes/sec	$48/$265
KOMAG/Philips	230MB 512 bytes/sec	$29/$139
OMD-230HS	230MB Pinnacle Hi Speed Media	$39/$190

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Maxoptix	1.2G-512b/s or1.3G-1024b/s-Glass	$189
Maxoptix	1.2G-512b/s or1.3G-1024b/s-Poly	$149
HP	1.2G-512b/s or1.3G-1024b/s	$109
OMD1200HS	Pinnacle 1.2G 512b Hi Speed (Universal)	$119
OMD1300HS	Pinnacle 1.3G 1024b Hi Speed	$119

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540MB	63min Compact Disc Other	$12.50/60
650MB	74min Compact Disc Kodak	$16.99/$80
650MB	74min Compact Disc Sony	$15.99/$75
650MB	74min Compact Disc Other	$13.99/$68
RCD-74	74min Compact Disc Pinnacle	$19/$90

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Centronics 50 to DB-50 3ft/6ft	$32/$42
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DB-50 to DB-50 3ft	$39.99
50 Pin SCSI-2 to SCSI-2 3ft/6ft	$33/$45
68 Pin Wide to Wide 3ft/6ft	$69/$79

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Centronics 50 Terminator Single/Dual End	$9/$13
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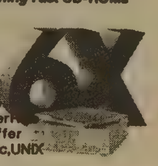

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Stealth 64 [illegible]

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matrox

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M6000	Int4X-CD w/8 BusinessTitles (11 are MicroSoft)	$325

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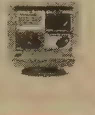

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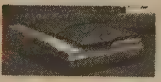

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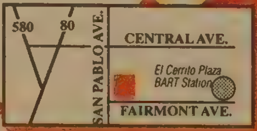

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Mutilaudio

Sound Experiments On The Digital—And Legal—Frontier

Most days, David Gans can be found hunched over his keyboard, staring intently at the monitor as he manipulates fragments of sound, playing them back for the umpteenth time. The screen displays a stack of horizontal windows, each of which contains jagged vertical lines reminiscent of oscilloscope readouts. Gans is trying to match up the same series of words, as he recorded them from five different people.

To the casual listener, it is impossible to discern the differences between one playback and the next. As Gans shrinks the snippet of sound from a two-second, three-word phrase to a single word, to a quarter-second-long individual letter, it also becomes difficult to remember what the sound was in the first place. But he is alert to every audio nuance. This is his livelihood, and he is very good at it.

David Gans is a radio producer, an author, and a musician. His bread and butter is the weekly syndicated *Grateful Dead Hour*—a radio show he has produced since 1987—which airs on seventy-two stations nationwide. He also hosts *Dead to the World*, a weekly show on Berkeley's KPFA (94.1 FM, Wednesdays, 7–9 pm) that offers an hour of Grateful Dead material and an additional hour of what he calls "free-form whatever." He produces *Eyes of Chaos/Veil of Order*, a radio show of eclectic music hosted by Phil Lesh and Gary Lambert.

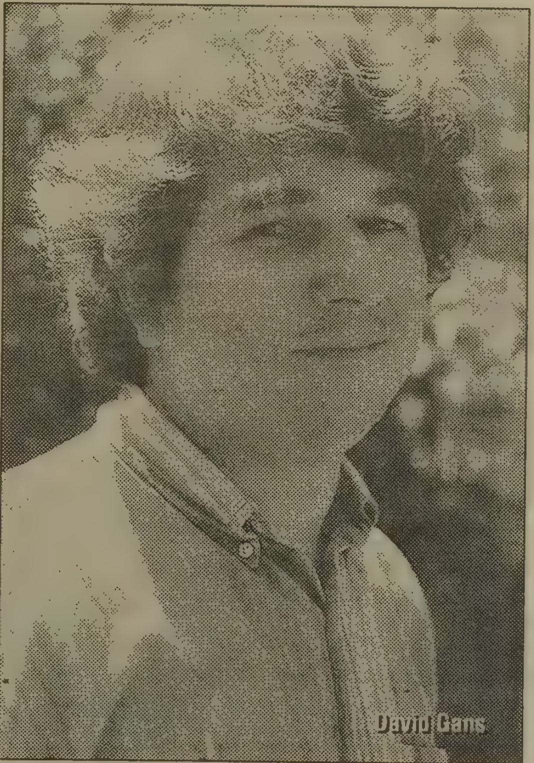
PHOTO BY LINDA JACOBSON

David Gans

Gans also experiments with a process he calls mutilaudio. He defines it as "a form of sound manipulation using preexisting recorded material." This definition fails to capture the full impact of his complex sound work, which can take the listener on a long, strange trip, indeed. His compilation "Skelvis! The Soundtrack," a fifteen-minute paean to Elvis Presley originally created for the Grateful Dead's Mardi Gras parade, is composed of scores of Presley recordings broken into an aural assault of jagged fragments.

"It took about a day and a half of solid work to create it," Gans said, noting that his inspiration for the piece came from an evening of channel surfing. "I happened to catch a documentary about Elvis on TV, and I recorded it... Then I went through it and collected different voices saying 'Elvis Presley' and put them, plus two CDs of Elvis songs, into the computer."

Using easily recognizable tidbits from much of Presley's work—four five-note refrains from "Jailhouse Rock," the "go, go, go" from "Blue Suede Shoes," the words "all shook up" looped in on themselves tighter and tighter until only the "sh" can be heard in mimicry of the sound of brushes on a high-hat—Gans layered sounds laid atop sounds, overlaid them with the voices

BY CYNTHIA DYER-BENNET

MUTILAUDIO *continued...*

of a multitude of announcers repeating Elvis' name, and stitched it all together to create an audio patchwork crazy quilt. The final product leaves the listener torn between delighted astonishment and the intense desire to have a shot, a toke, and a tranquilizer.

DESKTOP DIGITAL RECORDING

Gans uses the Desktop Digital Studio, what he describes as a "modest version" of desktop digital audio sound-editing equipment. He got his current setup in 1993 from the Novato-based Sonic Solutions, which specializes in creating customized, state-of-the-art, digital audio editing hardware and software for sound technicians. Sound tracks for films ranging from *Hoop Dreams* to *The Lion King* were honed using Sonic systems. CBS uses Sonic's digital audio workstation to smooth the audio from the O.J. Simpson trial. More than half of 1995's Grammy-nominated songs had the magic wand of Sonic Solutions waved over them. Though Sonic Solutions creates only Macintosh-compatible products and will soon be delivering a system for SGI machines, there are other companies that create similar equipment for DOS and Windows users, according to Gans.

ONE OF THE CONTROVERSIAL DEBATES THAT SURROUNDS THIS TECHNOLOGY IS: WHAT ARE THE RIGHTS OF THE ORIGINAL ARTIST? SOME SAY THAT APPROPRIATING RECOGNIZABLE SEGMENTS OF MUSIC TO CREATE A SOUND SCULPTURE OF A DIFFERENT FORM IS PLAGIARISM. SOME ARGUE IT ROBS THE MUSIC'S ORIGINAL CREATOR OF BOTH FINANCIAL GAIN AND RECOGNITION OF HIS ARTISTRY.

He has a Quadra 950 with 40MB of RAM. The Quadra houses a 240MB hard drive where all his programs are stored. His sound files are kept separately on three other hard drives, which have a total of 6GB of storage. He needs that much storage, too. A one-minute sound file can be as large as 20MB, and Gans might have multiple projects containing several hours' worth of recorded files he's working on at any given time. With sound files as large as they are, a certain amount of instability would seem inevitable, but Gans says his system has never crashed, and that "out of memory" messages are extremely rare.

A digital tape recorder allows him to put sounds onto digital audio tape (DAT), either by recording directly through a microphone or by plugging the DAT recorder into a sound source such as a CD player or radio. However, he can feed sounds from CD, DAT, or any other analog or digital source into his computer, which turns them into audio files that display on-screen, visual representations of the material he wants to manipulate. With stereo speakers strategically placed on either side of the monitor, Gans can simultaneously hear and see the sounds as he plays them back.

Once he is finished with a project, he can write the final output to either tape or CD. "I prepare all the music for my KPFA show on CD and take it to the station," he says, adding that he also uses CD for archiving. He prefers the stability of CD over DAT, and says that even though he appreciates the high sound quality DAT can deliver: "It is a fragile medium and sometimes they [the tapes] don't work. When they don't work, they don't work really, really badly."

DIGITAL VS. ANALOG

Gans's foray into sound manipulation didn't start digitally. He's been playing audio slice-and-dice for over a decade.

"I started doing montages as soon as I started doing radio. I always liked to mix in little bits of dialog from movies and short bits from songs. It's a fun, creative way to use the medium. I did it on magnetic tape, the old fashioned way. Then, when I started using the computer to do the Grateful Dead show, I found the capabilities vastly improved," he says. "When you do it on a computer, you record all the parts you think you'll want and put them on the hard disk. Instead of cutting from one thing to another, you can blend from one thing to another."

There are some breathtaking advantages to digital sound editing over the old days of reel-to-reel, analog work. Crossfades can last up to a hundred seconds. No longer does a sound technician have to physically cut a piece of tape and splice it to another, only to find that the splice was made in the wrong place. With desktop digital audio, experimentation takes place in RAM. An individual sound wave can be cut from one place and pasted to another in less than a second. If a paste isn't done correctly, a simple "undo" steps the piece back to the previous rendition. With the setup Gans has, he can set the undo feature to twenty-five or more back-steps. The tradeoff is that it takes a lot of RAM to keep track of that many versions.

With a computer, the work is also a lot easier, he says. No longer hobbled by the physical limitations of audio tape, Gans can quickly flip from one segment of a piece to another without having to wait for tape to rewind or fast-forward. "You can put your entire production up in the window and spot-check it," he said. He can have up to twelve audio tracks on screen at once, but says he seldom has the full dozen tracks up at the same time because "I don't tend to do things that are very complex. A twelve-track production would likely be a movie soundtrack with several stereo tracks and various effects tracks. For most of my work, I rarely need more than five tracks."

Gans admits that the ease of digital editing does not necessarily hasten the completion of a project. "You can spend a lot more time getting the transition just right on the computer because you're not doing it with a razor blade. You can really worry something to death because you have the ability to adjust something minutely." He even acknowledges a certain nostalgia for the old days of analog editing. "Sometimes I miss the hunching over that hot splicing block for hours at a time, but I like the result of computerized work better."

Though many of his creations are done for the sheer joy of it, he also uses mutilaudio in his work. "I use the technique to create material for my show. Every week on the *Grateful Dead Hour*, you'll hear, 'Here are some scenes from next week's show.' That's mutilaudio there. I need to make a twenty-second audio picture of an hour's show... It's an opportunity to use the entire recorded output of the Grateful Dead as a palette for these concise, evocative pictures."

WHOSE WORK IS IT, ANYWAY?

Gans has an agreement with the Grateful Dead, according to which "I have an exclusive contract with them to put together this show, and I have exclusive access to their archives." When he begins to create sound paintings using the material of other musical artists as his building blocks, the issues are far less clear.

One of the controversial debates that surrounds this technology is: What are the rights of the original artist? Some say that appropriating recognizable segments of music to create a sound sculpture of a different form is plagiarism. Some argue it robs the music's original creator of both financial gain and recognition of his artistry.

Another question is whether audio manipula-

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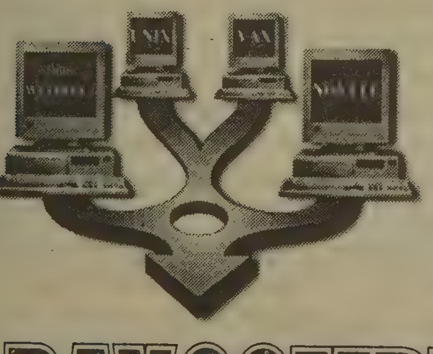

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MICROTIMES

MUTILAUDIO *continued...*

tion should be treated differently than other forms of artistic borrowing with regard to copyright infringement. In the written medium, place quotation marks around material from other sources and—with correct attribution—it is considered a perfectly legitimate literary device. Andy Warhol immortalized a can of soup, and Campbell's was happy for the publicity.

But when it comes to using a preexisting sequence of notes as the structural material for new creations, there's a whale of a gray area. The hip-hop practice of sampling—taking small segments of multiple songs and looping them together to create a new sound—is considered highly controversial by many in the music industry. Even when the motive of profit is not an issue, objections have been raised. Sound artist John Oswald, who created a CD called "Plunderphonic" that included radically altered music originally recorded by performers ranging from Dolly Parton to Michael Jackson, was forced to destroy all copies he owned of the CD, despite the fact that they were freebies, clearly marked "Not For Sale."

Gans insists that mutilaudio work should be treated no differently than the work of any artist who borrows from the art of the past to build the art of the future. "Suppose I make a collage, a face. I borrow the smile from the Mona Lisa, the eyes from Rivera's portrait of Kahlo, the nose from a Picasso—I'm talking about tearing pieces of paper upon which are printed copies of these famous works. Every element of this portrait is someone else's work, but the composite is something I came up with."

In fact, it is the ability to rearrange existing work to create a new context and content that fascinates him. "In a way, it's a very unfortunate hobby to have because it runs afoul of the law and other people's proprietary interest in their work. I think of it as satire, I think of it as a new form of expression that is made possible by this technology... If you live in modern times, you are constantly bombarded by sounds and you can't help but have ideas about them. I use stuff I hear to do something that I think expresses my consciousness. It just happens that I am using, as building blocks, other people's words or music."

Gans also notes that, in general, the legality of mutilaudio work only becomes questionable when money is at stake. He avoids potential copyright problems when playing his creations on the air by carefully crediting each artist whose work can be heard, even if only for a split second.

Gans doesn't limit himself to musical manipulations. Some of his strongest work is in the realm of the spoken word, where it's legal to declare open season on the foibles of politics. He is experimenting with building audio satires by taking politicians' speeches and putting them into hysterically funny, and often more truthful, arrangements. He has reedited a recent State of the Union address to startling effect. "My fellow Americans, it is politics as usual..." drawls the voice of Bill Clinton as an audience breaks into laughter and spontaneous applause in the background.

Whether Gans is putting together a sound collage for the next *Grateful Dead Hour*, or rearranging Senator Exon's latest dire warnings about the dangers of porn on the Internet, he never grows tired of the tools of experimentation. "I've found the Mac to be a fabulously compliant learning environment. It rewards exploration. You have to be brave and try things, develop your own techniques. The manuals that come with computer systems can only tell you so much, they can't inspire you. A lot of what I'm doing is just seeing what can be done." (David Gans has a Web page with examples of his mutilaudio at *http://www.well.com/user/tnfl*.) ■

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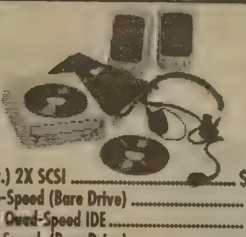

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DC-2300 Plus Enhanced IDE w.16550	$48
CD-4030 VLB IDE Cache w. 4HD	$90
IDEISA/IDE VLB w.2HD2FD 2S 1P 1G	$11/19
PCI IDE/NCR PCI SCSI	$26/79

TAPE BACKUP

COLORADO	
FC-20 / TC-15 Tape Vackup Controller	$85/195
DJ-10 120MB / DJ-20 250MB	$99/124
DJ-35C 350MB / DJ-25 750MB	$128/280
PT-25 2GB Int./PT-28 2GB Ext.	$920/995
PT-50 4GB Int./PT-30E 4GB ext.	$995/1245
Trakker 250MB Ext.	$275
CONNER	
250MB/420MB Int. w. Tape	$125/167
432RT 2.0GB Int.	$795
4320RP 4-8GB Int.	$850
3M DC2120 Tape	$13

POWER SUPPLY & CASE

200/230/25/300 Power Supply	$30/36/45/60
Desktop AT Case w/230W Power Supply	$44
Mini-Tower Case w/230W Power Supply	$36
Medium Tower Case w/250W PS	$55
Full-Size Tower Casew/250W PS	$75
Super Tower Case w/300W PS	$165
APC UPC 295/400/600/300VA	$112/142/235/260
APC SMART 400/600/750/900VA	$262/338/388/459

KEYBOARDS

FOCUS 2001/7000 w. TrackBall/9001	$31/42/44
KEYTRONICS 101-Key/101-Key 2189/124	$22/26/55
MAXISWITH 2189 101-Key/124-Key	$26/55
MICROSOFT natural keyboard	$84
MITSUMI model Z/Model R 101-Key	$15/22
NORTHGATE Omni 101/Omni 102/Ultra	$65/55/83

SOFTWARE

Lotus 1-2-3 for Windows	$290
MS DOS 6.22 1 (open) w/system purchase	$45
Microsoft Excel 5.0 for Windows	$265
Microsoft Office 4.2 for Windows	$450
Microsoft Office 4.2 Upgrade	$285
Microsoft Project 3.0 for Windows	$425
Microsoft Word for Windows	$290
Microsoft Windows 3.11 (w/System Purchase)	$58
Microsoft Windows 3.11 Workgroups (w/System)	$70
MPFS Works for Windows	$29
WordPerfect 6.0 (Win)	$249
Microsoft Windows NT 3.5 (Work Station)	$295

PRINTERS

CANON	
BJ-200E/BJC-600	$269/509
HEWLETT PACKARD	
DeskJet 540/560C	$225/488
LaserJet 4L/4/4Plus	$645/1355/1345
LaserJet 4M/4ML/4M Plus	$1895/1890/1815
LaserJet 4P/4MP	$928/1350
LaserJect 4Si/4SiMX	$2824/3990
HP1200C/320 Portable	$990/289
OKIDATA	
OL400E Laser	$425
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2023 24-pin, Quite/2123 24-pin	$185/199
Color Kit for 2123	$54

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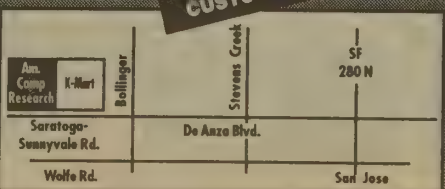

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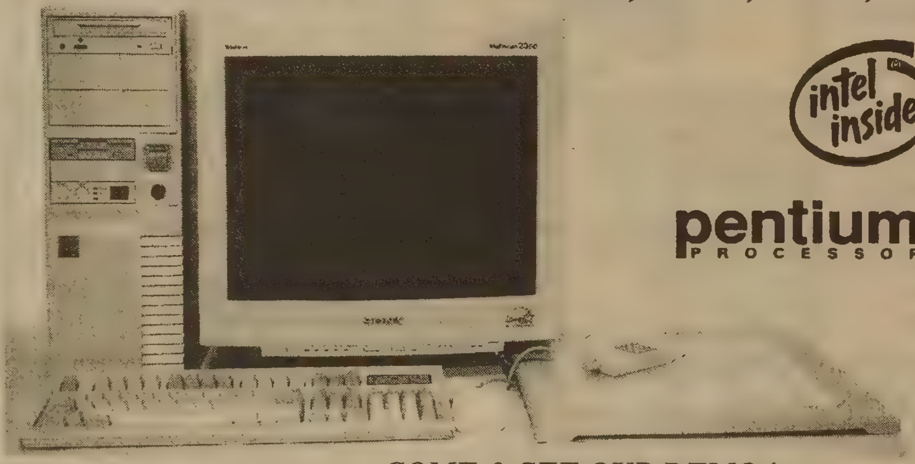

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- *Digitizer(12X12 to 44X60)
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  - -Pen Plotter(A to E size)
  - -Inkjet Plotter(A to E size)
  - -Color or monochrome

✓ Recommended Option(Graphics)

- *Matrox MGA II+ PCI with 4MB VRAM(24bit color @1152X882)
- *Scanner
  - -color or monochrome
  - -Flatbed or 35mm film scanner
- *Dye-sub Color Printer
  - -Economic Fargo Primera
  - -Best quality Kodak Colorease PS
- *Pressure Sensitive digitizer
- *17" or 20" SONY monitor
- *Additional 16MB or 48MB RAM

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- ***Solaris X86 ver. 2.4 or NeXT ver. 3.2***
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- ***Diamond Stealth 64 PCI** graphics card, **Toshiba Quad speed CD ROM***
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- ***1GB SCSI** Hard Drive,101 Keyboard, 1.44/1.2MB FDD*
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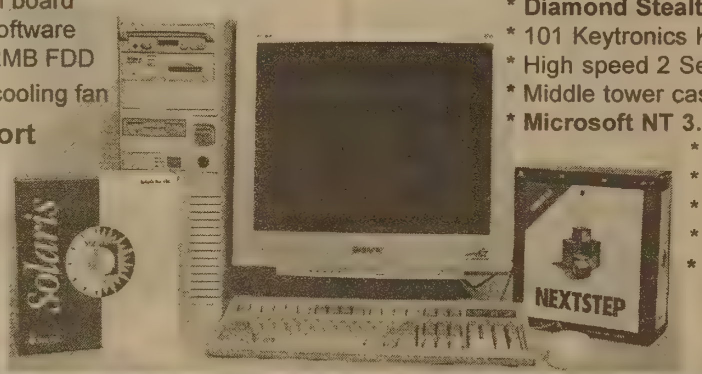

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- * Calcomp DrawingMaster thermal plotter, great speed and accuracy
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- * Mitsubishi G370-10 Thermal line color printer
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* 21" Philips 2120DC	$2,395
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* 17" Nanao T2-17TS	$1,099
* 17" Nanao F2-17EX	$ 995
* 17" Mitsubishi Scan 17FS	$ 995
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* Calcomp Techjet D/E	$2,395/2,995
* Calcomp Techjet personal (B)	$ 645
* Calcomp CCL600 Laser prt.	$3,295
* HP 355 Electrostatic color	$29,995
* HP Designjet 650C/PS E	$8,495
* HP DesignJet 650C D/E	$6,195/7,195
* HP DesignJet 600 D/E	$4,995/5,995
* HP DesignJet 220 D/E	$2,395/3,295
* HP memory 2M/4M/8M	$205/335/625
* HP DraftPro + D/E	$3,195/4,195
* HP 7475A/7550+	$1,495/3,195
* HP Paintjet XL (A-B)	$1,895
* HP Deskjet 1200C	$1,395
* HP LaserJet 4V(A-B)	$1,895
* SummaJet Color Inkjet D/E	$2,295/2,895
* H.I.DMP 162R (A-E)	$3,695
* H.I. HIPLOT 7100 (A-D)	$2,095
* H.I. HIPLOT 7200 (A-E)	$2,595
* H.I. DMP 61/62SP	$1,795/2,395
* H.I. JetPro(A-C)V100	$1,295
* Enter SP600 (A-B)	$ 695
* Roland SignMaker	$ Call
* Roland GRX350 (A-D)	$3,495
* PacificData InkJet II(A-C)	$1,095

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* Artist WinSprint XJ1000	$ 1,195
* Metheus 1104+16/256	$995/1,095
* Metheus Premire 2M/4M	$595/795
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* Matrox 2M VRAM upgrade	$ 250
* NO. 9 Imagine 128 Pro, 8MB	$1,895
* Diamond Stealth 64 VRAM, 2M	$ 325
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* TrueVision Targa 16/32/64	$ Call
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* Calcomp 36X48 Drawing Slate	$1,695
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* HP DeskJet 660C	$ 595
* Kodak Color Ease	$5,195
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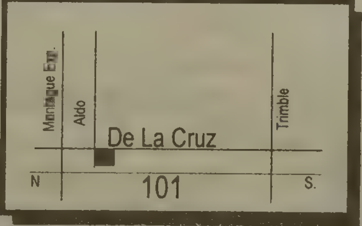

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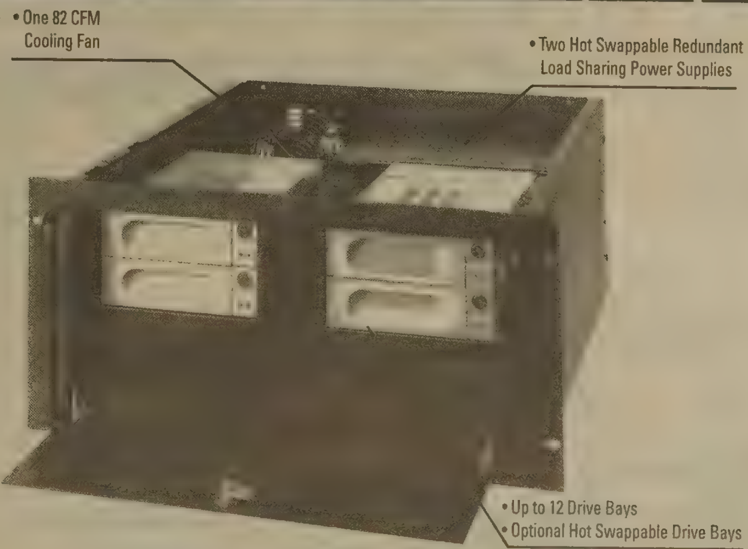
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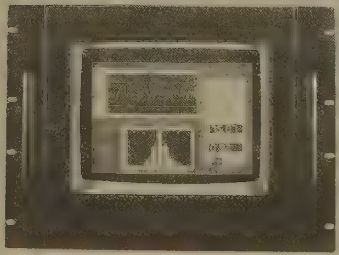

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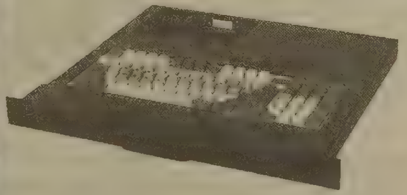

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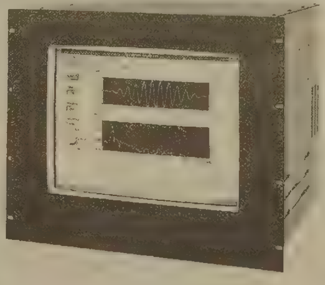

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Resources

Calendar Of Events

Conferences, Shows, Special Events

September

September 16 Robert Austin Computer Show. Cow Palace, San Francisco. Robert Austin Corp. Call: 1-800-346-0100.

September 17 Computer Show And Sale. Civic Auditorium, Stockton. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

September 17–20 Softworld '95 Conference. Vancouver, B.C. Technology Industries Association of British Columbia. Call: 1-800-667-5535 or *info@softworld.org* .

September 17–22 9th Systems Administration Conference. Monterey. USENIX. Call: (714)588-8694 or *conference@usenix.org* .

September 18–20 National Human Resources Information Technology Expo And Conference. San Jose. Blenheim. Call: 1-800-232-3976.

September 18–21 UNIX Expo '95: The Open Systems Show. New York. Blenheim. Call: 1-800-829-3976.

September 19–21 Online Developers II Conference. San Francisco. Jupiter Communications. Call: 1-800-488-4345.

September 20–22 Educational Technology And Telecommunications Markets Conference. San Diego. *The Heller Report.* Call: (708)441-2920 or *EdNET95@aol.com* .

September 20–22 Fifth Annual Etak User Group Conference. Redwood City. Etak, Inc. Call: Amy Wehrfritz, (415)328-3825 ext. 220 or *amy.wehrfritz@etak.com* .

September 21 Passport 1995: Winning In Asian Markets Conference. Santa Clara. Asian American Manufacturers Association. Call: (415)325-5499 or *aama@3wc.com* .

September 21–22 Digital Shopping And Electronic Commerce Conference And Exhibition. New York City. American Expositions, Inc. Call: (212)226-4141.

September 23–24 Computer Show And Sale. Solano County Fairgrounds, Vallejo. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

September 26–29 Seybold Conference And Expo. San Francisco. SOFTBANK Expos. Call: 1-800-488-2883.

September 27 Live Internet Interview With Lawrence K. Grossman On The Electronic Republic. On the World Wide Web at *http://www.irsociety.com/roundtable.html* at 7:00 pm. Internet Roundtable Society. Call: (415)327-4386.

September 27–29 Implementing A Corporate Repository Seminar. San Francisco. DCI. Call: (508)470-3880 or *DCIconf1@aol.com* .

September 28 Joe's Digital Diner: Arte Y Acciones Presentation. San Francisco. San Francisco Digital Media Center. Call: Joe Lambert, (415)824-9394 or *sfdmc@well.com* .

October

October 1 Computer, Ham Radio, Electronics Swap Meet. Livermore. Livermore Amateur Radio Club. Call: Noel Anklam, at (510)447-3857.

October 7–8 Computer Show And Sale. Cal Expo, Sacramento. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

October 7–8 The Good, The Bad, And The Internet: A Conference On Critical Issues In Information Technology. Chicago. Computer Professionals for Computer Responsibility. Call: (415)322-3778 or *cpsrannmtg@cpsr.org* .

October 7–11 International Exhibition Of Computers And Applications For China. Shanghai, China. CATE Development, Inc. Call: (415)903-2288.

October 9–11 1995 Connector And Interconnection Symposium And Trade Show. San Jose. International Institute of Connector and Interconnection Technology. Call: 1-800-85-IICIT.

October 9–12 Eighth Annual Microprocessor Forum. San Jose. MicroDesign Resources. Call: 1-800-770-4006.

October 10–12 IBM TechCon: The Client/Server Solutions Conference. San Jose. IBM. Call: 1-800-767-2336.

October 10–12 Software World And

CALL FOR PARTICIPATION

Technology And Persons With Disabilities Conference

The Center on Disabilities at CSU Northridge is accepting proposals for half-hour or forty-five-minute sessions at the Eleventh Annual Technology and Persons With Disabilities Conference March 19–23, 1996. This is a comprehensive, international conference on technology, where all ages, disabilities, and levels of education and training in this country and abroad are covered. Speakers are invited to share applications of hardware and software, adaptive devices, training programs, and results of research in any and all areas of technology and disability. There is a heavy consumer orientation (parents of and persons who are themselves disabled) to the conference, so papers of interest to/from these target groups are also encouraged. The deadline for submissions is October 15, 1995. For more information, contact Dr. Harry Murphy, Founder & Dir., Center on Disabilities, CSUN, 18111 Nordhoff St., Northridge, CA 91330-8340; (818)885-2578; ltm@csun.edu .

SEPTEMBER 25–29

International Congress Of Information

HAVANA, CUBA

The theme of the International Congress of Information, to take place at the International Conference Center in Havana, Cuba, is "Information: A Factor for Success in Human Development." The Congress will feature keynote lectures on the role of information in human development, sustainable development, the media, global changes, industrial development, and more; roundtables on information policy in developing countries, application of expert systems and knowledge-based systems in libraries and information services, and other topics; seminars covering the impact of information on organizations, the Internet as a communication and training tool, information management, information access and use, electronic publications, and more; workshops on information management, scientific indicators in decision making, economic aspects of information, and the information industry; and panels on how users evaluate specialized information services, information and leadership, the modern information professional, ethics in information services, and executive information services. The cost is US $310, $150 for an accompanying person, and $180 for students. For more information, email info@ceniai.cu .

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Calendar Of Events *continued...*

Client/Server Developer's Conference And Expo. San Jose. DCI. Call: (508)470-3880.

October 12–13 Software Entrepreneur's Equity Forum '95. Santa Clara. Software Success. Call: Robyn or Cynthia, 1-800-929-4824 ext. 684.

October 14 Robert Austin Computer Show. Cow Palace, San Francisco. Robert Austin Corp. Call: 1-800-346-0100.

October 14–15 Computer Show And Sale. Solano County Fairgrounds, Vallejo. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

October 16–18 TechDecisions '95 Conference And Expo. San Jose. CMP Trade Show & Conference Services. Call: 1-800-808-EXPO.

October 21 Robert Austin Computer Show. Oakland Coliseum. Robert Austin Corp. Call: 1-800-346-0100.

October 22 Computer Show And Sale. Civic Auditorium, Stockton. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

October 24–28 Interactive Summit. Squaw Valley. International Interactive Communications Society. Call: (818)798-5588 or *IICSSummit@aol.com* .

October 26 Joe's Digital Diner: Digital Storytelling Presentation. San Francisco. San Francisco Digital Media Center. Call: Joe Lambert, (415)824-9394 or *sfdmc@well.com* .

October 26–27 Systems Support Expo. San Francisco. Service News. Call: (207)846-0600.

October 29–November 2 Autodesk University Conference And Exhibition. San Francisco. Miller Freeman, Inc. Call: Yolanda White, (415)905-4994.

October 30–November 2 Internet World '95 Show. Boston. Mecklermedia. Call: (203)226-6967 or *info@mecklermedia.com* .

October 30–November 3 People, Networks And Communication '95 Conference. Honolulu, Hawaii. International Community Interconnected Computing eXchange. Call: Gale Warshawsky, (510)820-6821 or *msgale@netcom.com* .

Classes, Seminars, Workshops

September

September 16 Careers In Multimedia Seminar. San Francisco. SFSU Extended Education. Call: (415)904-7700.

September 16 Create Your Own Web Page Class. San Francisco. MentorNet. Call: (415)664-1091 or *admin@mentornet.com* .

September 16 Web Builders Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 17 Internet Exploration Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 17 Intro To Internet Commerce Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 18 Complete Online Novell CNA Training. Berkeley. Cyber State University. Call: (510)253-TREK.

September 18 Doing Business On The Internet Free Seminar. Pleasanton. Network Resource Group. Call: Mary Souza, (510)734-1500.

September 18 Integrating Windows 95 With NetWare Free Seminar. Pleasanton. Network Resource Group. Call: Mary Souza, (510)734-1500.

September 18–20 Software Documentation Trends And Technology Class. Burlingame. UC Berkeley Extension. Call: (510)642-4151.

September 18–21 Advanced QuarkXPress Class. Oakland. MacPeople. Call: 1-800-360-4606.

September 18–21 Professional AutoCAD Level II Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

September 18–22 Autodesk 3D Studio Basics Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

September 18–24 Supporting MS Windows NT Server 3.5 Class. Newark. Unitek. Call: (510)249-1060.

September 18–October 9 QuarkXPress 1A Class. San Francisco. Computer Arts Institute. Call: (415)546-5242.

September 19 Basics Of Networking Free Seminar. San Francisco. Network Services Group. Call: (415)863-8407.

September 19 Excel 5.0 Win/Mac, Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

September 19 Implementing A New Help Desk Facility Seminar. Emeryville. Help Desk Institute. Call: (510)922-8401.

September 19 Internet Advanced Class. Corte Madera. PCS Learning Centers. Call: (415)927-2021 or *pcscm@nbn.com* .

September 19 Lotus 1-2-3 4.0/5.0 For DOS/Win, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 19 Quattro Pro 5.0/6.0 For DOS/Win, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 19 Repetitive Strain/Carpal Tunnel Injury Free Workshop. Santa Clara. Dr. Michael Currie. Call: (408)249-3000.

September 19 Word For Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

September 19–20 Intro Persuasion Class. Oakland. MacPeople. Call: 1-800-360-4606.

September 19–22 Elementary AutoCAD Class. Sausalito. The ACADemy. Call: (415)331-9466.

September 19–October 10 Autodesk Animator Pro 1A Class. San Francisco. Computer Arts Institute. Call: (415)546-5242.

September 20 A Career In Multimedia Workshop. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

September 20 Intro To Windows, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 20 Using Windows 3.1 Within A Novell NetWare Framework Seminar. San Francisco. Network Services Group. Call: (415)863-8407.

September 20 Word 6.0 Win/Mac, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 20, October 5–December 7 Software Product Marketing Class. Belmont. UC Berkeley Extension. Call: (510)642-4151.

September 21 Intro To MS-DOS 5.0/6.2, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 21 Intro To Windows 3.1, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

September 21 Microsoft Word Class. San Francisco. Lindquist, von Husen & Joyce, CPAs. Call: (415)957-9999.

September 21 Networking Windows 95 Free Seminar. San Francisco. Network Services Group. Call: (415)863-8407.

September 21–22 Intro Illustrator Class. Oakland. MacPeople. Call: 1-800-360-4606.

September 21–22 WordPerfect 6.0/6.1 For DOS/Windows, Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

September 21–November 16 Web Wonders—Design Issues For The World Wide Web Seminar Series. San Francisco. San Francisco Digital Media Center. Call: Joe Lambert, (415)824-9394 or *sfdmc@well.com* .

September 22 Access 2.0, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

September 22 Access 2.0, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 22 Excel 5.0 Win/Mac, Charts Class. Emeryville. NCS. Call: (510)653-0808.

September 22 Web Masters Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 22–23 NetWare 4.x System Admin-

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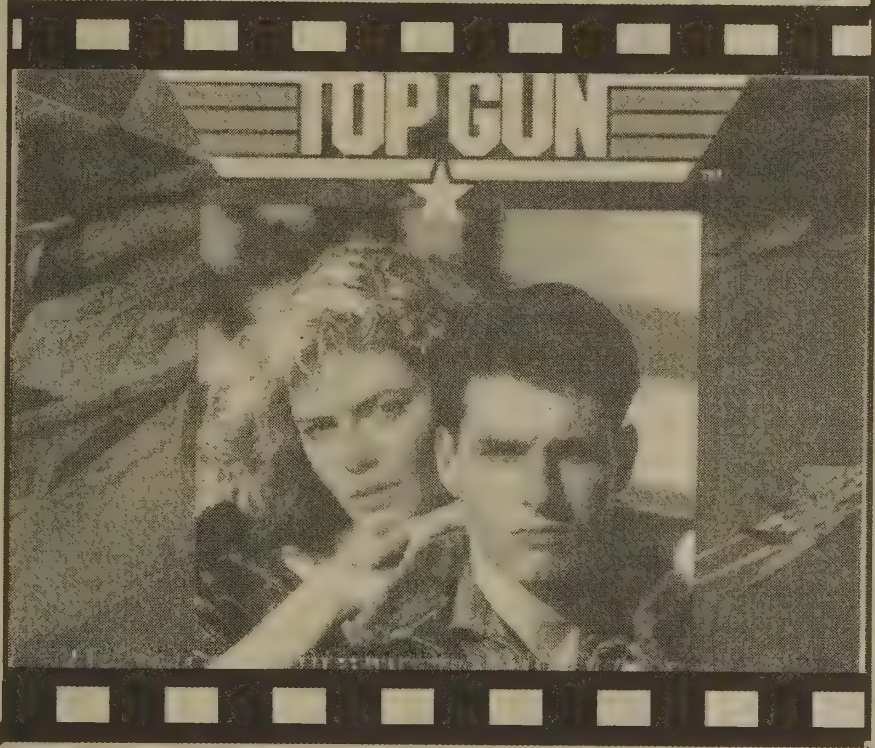

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Calendar Of Events *continued...*

Digital Media Center. Call: Joe Lambert, (415)824-9394 or *sfdmc@well.com* .

October 3 Managing Multiple Projects, Objectives, And Deadlines Seminar. Sacramento. SkillPath Seminars. Call: 1-800-873-7545.

October 3 Windows Tips, Techniques, And Shortcuts Seminar. San Francisco. National Seminars Group. Call: 1-800-258-7248.

October 3–24 Premiere On A Platter Class. San Francisco. San Francisco Digital Media Center. Call: Joe Lambert, (415)824-9394 or *sfdmc@well.com* .

October 4 Managing Multiple Projects, Objectives, And Deadlines Seminar. San Francisco. SkillPath Seminars. Call: 1-800-873-7545.

October 4 Powerful Communication Skills For Women Workshop. Sacramento. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

October 4 What's New With Windows 95 Class. Sausalito. The ACADemy. Call: (415)331-9466.

October 4 Windows Tips, Techniques, And Shortcuts Seminar. Concord. National Seminars Group. Call: 1-800-258-7248.

October 4–5 AutoCAD R13 Update Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

October 5 Can You Trust The Internet? Seminar. Palo Alto. Churchill Club. Call: Lisa Taylor, (408)371-4460 or *chrchllclb@aol.com* .

October 5 Managing Multiple Projects, Objectives, And Deadlines Seminar. Oakland. SkillPath Seminars. Call: 1-800-873-7545.

October 5 Windows Tips, Techniques, And Shortcuts Seminar. San Jose. National Seminars Group. Call: 1-800-258-7248.

October 5–6 MS Word Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

October 5–6 Understanding LANs Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

October 5–12 CD-ROM Production Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

October 6 Powerful Communication Skills For Women Workshop. San Francisco. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

October 6 Windows 95 System Administration Seminar. Pleasanton. Network Resource Group. Call: (510)734-1500.

October 6 & 14–15 Digital Radio Class. San Francisco. San Francisco Digital Media Center. Call: Joe Lambert, (415)824-9394 or *sfdmc@well.com* .

October 7 Photoshop Mastery '95 Seminar. San Francisco. Solotech Design. Call: 1-800-662-5612.

October 7–8 Nonlinear Editing With Adobe Premiere Workshop. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

October 7–28 Creating Multimedia With Apple Media Tool Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

October 9 C For Programmers Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

October 9 Complete Online Novell CNE Training. Berkeley. Cyber State University. Call: (510)253-TREK.

October 9–12 Professional AutoCAD Level I Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

October 9–13 Supporting MS Windows NT Workstation 3.5 Class. Newark. Unitek. Call: (510)249-1060.

October 10 Powerful Communication Skills For Women Workshop. Oakland. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

October 10–11 NetWare Basic Training Seminar. San Jose. Center for Advanced Professional Development. Call: (714)261-0240.

October 11 Powerful Communication Skills For Women Workshop. Foster City. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

October 11–12 Navigating The Internet Class. Petaluma. Redwood Computers. Call: John Dooley, (707)795-1700.

October 12 Powerful Communication Skills For Women Workshop. San Jose. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

October 12–13 Fundamentals Of AutoCAD Class. Sausalito. The ACADemy. Call: (415)331-9466.

October 12–13 Migrating To Windows 95 Seminar. San Jose. Center for Advanced Professional Development. Call: (714)261-0240.

October 12–13 MS PowerPoint Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

October 12–14 PCB Design For High Speed Logic Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

October 13–15 Novell NetWare 3.12 System Administration Seminar. Pleasanton. Network Resource Group. Call: (510)734-1500.

October 14 QuarkXPress Mastery '95 Seminar. San Francisco. Solotech Design. Call: 1-800-662-5612.

October 16 Complete Online Novell CNA Training. Berkeley. Cyber State University. Call: (510)253-TREK.

October 16 Windows 95 Transition Class. Sausalito. The ACADemy. Call: (415)331-9466.

October 16 Windows Tips, Techniques, And Shortcuts Seminar. Oakland. National Seminars Group. Call: 1-800-258-7248.

October 16–17 Advanced SGML Syntax Class. San Jose. GCA. Call: (703)519-8160.

October 16–17 DTD Designer's Workshop. San Jose. GCA. Call: (703)519-8160.

October 16–17 HTML And Internet Publishing Class. San Jose. GCA. Call: (703)519-8160.

October 16–17 SAP R/3 Objective Analysis—Is SAP Right For You? Seminar. San Jose. American Institute. Call: 1-800-345-8016.

October 16–17 Troubleshooting And Fine-Tuning The Networked PC Seminar. Sacramento. Data-Tech Institute. Call: (201)478-5400.

October 16–19 Professional AutoCAD Level II Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

October 16–22 Supporting MS Windows NT Server 3.5 Class. Newark. Unitek. Call: (510)249-1060.

October 17 Managing Multiple Projects, Objectives, And Deadlines Seminar. San Jose. SkillPath Seminars. Call: 1-800-873-7545.

October 17 Premiere Tips And Techniques Intensive Workshop. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

October 17–20 Elementary AutoCAD Class. Sausalito. The ACADemy. Call: (415)331-9466.

October 17–December 19 Empowering The Audience: Basics Of Multimedia Interaction Design Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

October 18–19 AutoCAD Designer Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

October 19 Windows Tips, Techniques, And Shortcuts Seminar. Sacramento. National Seminars Group. Call: 1-800-258-7248.

October 19–20 Fundamentals Of Telecommunications Seminar. San Francisco. Advanced Information Technologies. Call: 1-800-573-6333.

October 19–20 MS Excel Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

October 19–20 Negotiating Software License Agreements Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

October 19–November 9 PageMaker 1A Class. San Francisco. Computer Arts Institute. Call: (415)546-5242.

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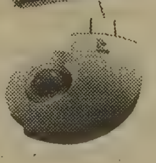

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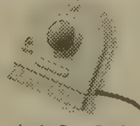

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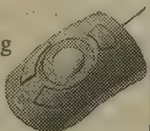

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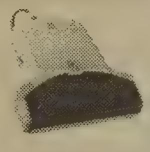

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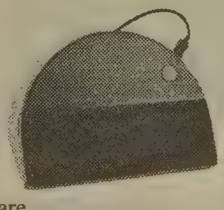

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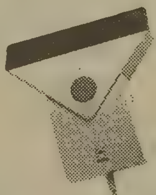

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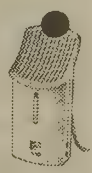

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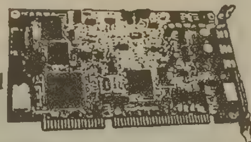

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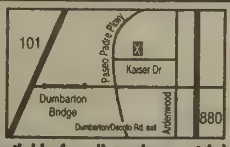

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Sept. 17 Sunday **SAN MATEO EXPO CENTER**
2495 S. Delaware, San Mateo
Take 101 to 92 West. Take the Delaware exit and follow the signs.

Sept. 30 Saturday **SANTA CLARA COUNTY FAIRGROUNDS**
344 Tully Road, San Jose
Take Highway 101 to San Jose. Exit West on Tully Rd.

HOT NEW MODESTO SHOW!

Oct. 1 Sunday **MODESTO CENTRE PLAZA**
10th & K Streets, Modesto
From 99 Take Central Modesto Exit (it becomes 6th Street). Stay on 6th Street for five blocks, turn right on K Street. Go four blocks to the entrance of the Centre.

Oct. 8 Sunday **CENTRE CONCORD**
5298 Clayton Road, Concord
From 680 go North, take Ygnacio Valley Rd. East exit; left on Clayton Road.

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Sept. 23 & 24 - VALLEJO
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Sat. Sept. 30 - SAN RAMON
The Marriott
Oct. 7 & 8 - SACRAMENTO
Cal Expo
Oct. 14 & 15 - VALLEJO
Solano Co. Fairgrounds
Sun. Oct. 22 - STOCKTON
Civic Auditorium
Sat. Oct. 28 - SANTA ROSA
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376 El Camino, San Carlos
(Between Holly & Harbor)

MICROTIMES

Resources

Calendar Of Events *continued...*

October 20 Managing Multiple Projects, Objectives, And Deadlines Seminar. Monterey. SkillPath Seminars. Call: 1-800-873-7545.

October 20–22 Novell NetWare 4.x System Administration Seminar. Pleasanton. Network Resource Group. Call: (510)734-1500.

October 21 Illustrator Mastery '95 Seminar. San Francisco. Solotech Design. Call: 1-800-662-5612.

October 21 What's New With Windows 95 Class. Sausalito. The ACADemy. Call: (415)331-9466.

October 21–22 Editing With The Video Toaster Workshop. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

October 21–22 Intro To Adobe After Effects Workshop. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

October 21–November 11 Introducing ScriptX Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

October 23 Complete Online Novell CNE Training. Berkeley. Cyber State University. Call: (510)253-TREK.

October 23–24 Enabling Networks For Internet Access Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

October 23–24 Navigating The Internet Class. Petaluma. Redwood Computers. Call: John Dooley, (707)795-1700.

October 23 & 25 Writing For Multimedia Workshop. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

October 23–25 Hands-On Lotus Notes Administration Class. San Jose. American Institute. Call: 1-800-345-8016.

October 23–26 3D Studio Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

October 23–27 3D Studio Class. Sausalito. The ACADemy. Call: (415)331-9466.

October 23–27 Supporting MS Windows NT Server 3.5 Class. Newark. Unitek. Call: (510)249-1060.

October 23–November 6 Web Publishing Class. San Francisco. San Francisco Digital Media Center. Call: Joe Lambert, (415)824-9394 or *sfdmc@well.com* .

October 23–November 20 Financing The Software Venture Class. Atherton. UC Berkeley Extension. Call: (510)642-4151.

October 23–November 20 Intermediate Macromedia Director Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

October 24 Powerful Communication Skills For Women Workshop. Monterey. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

October 24 Using Computers In Business Seminar. San Francisco. San Francisco Business Computers. Call: (415)788-5338.

October 25 Creating, Protecting, And Exploiting Intellectual Property Rights In The Digital Media: The Legal Essentials Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

October 25 Powerful Communication Skills For Women Workshop. Palo Alto. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

October 25–27 Avid: Intro To Media Composer Workshop. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

October 25–December 20 Interactive And Experimental Fiction Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

October 26 Macroeconomics Of Silicon Valley Seminar. Churchill Club. Call: Lisa Taylor, (408)371-4460 or *chrchllclb@aol.com* .

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- . PCI SVGA Vedio Card W/1MB
- . 14" SVGA 1024x768 .28 NI Monitor
- . Medium Tower Case/250W P.S.
- . Mitsumi Enhanced Keyboard
- . MicroSoft Compatible Mouse

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90MHz....... $1299
100MHz..... $1395

586-PRO-STD

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- . Teac 1.44MB Floppy Drive
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- . Diamond Stealth 64 Video W/2MB
- . 15" SVGA 1280X1024 .28 NI Monitor
- . 14.4K Fax/Data Modem
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- . Mitsumi 101 Enhanced Keyboard
- . MicroSoft Compatible Mouse

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90MHz....... $1859
100MHz..... $1959

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- . Intel Pentium CPU
- . 256K Cache
- . 16MB RAM
- . Teac 1.44MB Floppy Drive
- . 1.08GB Conner Fast SCSI-2 Hard Drive
- . NCR Fast SCSI-2 Controller Card
- . PCI Enhanced IDE + 2 Hi-Speed I/O
- . Diamond Stealth 64 Video W/2MB
- . 17" MAG 1280X1024 .28 Monitor
- . Sound Blaster 16 Sound Card
- . Teac 4X IDE CD-ROM Drive
- . Pair of 120W Multimedia Speaker
- . Medium Tower Case/250W P.S.
- . Keytronic Enhanced Keyboard
- . MicroSoft Ergonomic Mouse

90MHz....... $2695
100MHz..... $2795

586-SUPER-X

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- . Intel Pentium CPU
- . 256K Cache
- . 16MB RAM
- . Teac 1.44MB Floppy Drive
- . 1.06GB Conner Wide SCSI Hard Drive
- . Adaptec 2940W Fast Wide SCSI Card
- . PCI Enhanced IDE + 2 Hi-Speed I/O
- . Diamond Stealth 64 W/2MB VRAM
- . 17" SONY-17SF .25 Monitor
- . Sound Blaster 16 Sound Card
- . Toshiba 4X IDE CD-ROM Drive
- . Pair of 120W Multimedia Speaker
- . Medium Tower Case/250W P.S.
- . Keytronic Enhanced Keyboard
- . MicroSoft Ergonomic Mouse

100MHz..... $3599
120MHz..... $3895

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- . Conner 420MB Enhanced HD
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- . Mitsumi Enhanced Keyboard
- . MicroSoft Compatible Mouse

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DX33 .... $699
DX66 .... $729

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- . 80486 VLB Motherboard
- . 256K Cache
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- . Trident 9440 SVGA W/1MB
- . 14" SVGA 1024x768 .28 NI Monitor
- . Conner 420MB Enhanced HD
- . Mini Tower Case/ 230W P.S.
- . Mitsumi Enhanced Keyboard
- . MicroSoft Compatible Mouse

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DX2-80 .... $869
DX4-100 ..... $888
DX4-120 ..... $999

486-VLB-LXE

- . 80486 VLB Motherboard
- . 256K Cache
- . 8MB RAM
- . Mitsumi 1.44MB Floppy Drive
- . Diamond SVGA Vedio Card W/1MB
- . 14" 1024x768 .28 NI SVGA Monitor
- . Conner 540MB Enhanced HD
- . Panasonic 4X CD-ROM Drive
- . Sound Blaster 16 Sound Card
- . Medium Tower Case/ 230W P.S.
- . Mitsumi Enhanced Keyboard
- . MicroSoft Compatible Mouse

DX2-66 .... $1229
DX4-100 ..... $1259
DX4-120 ..... $1329

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- . Asus 486 PCI Motherboard
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- . 256K Cache
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- . Toshiba 4X IDE CD-ROM Drive
- . Sound Blaster 16 Sound Card
- . Medium Tower Case w/ 230W P.S.
- . Keytronic Enhanced Keyboard
- . MicroSoft Ergonomic Mouse

DX2-66 .... $1659
DX4-100 ..... $1699

MONITOR

14" 1024x768 .28 NI	$219
15" CTX 1024X768 .28 NI	$329
15" Viewsonic 15ES	$369
15" Exview 1280x1024 .28	$299
17" CTX 1280x1024 .28	$649
17" MAG DX17F .28	$679
17" SONY-17SF .25	$839

MEMORY

1X32-70ns 4MB 72-Pin SIMM	$129
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US Robotics 28.8 /14.4 V.34 Int.	$189

CONTROLLER CARD

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Sound Blaster 16 SCSI	$99
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540MB Quntum LT540A	$179
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1.2GB WD31200	$279

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CD-ROM DRIVE

2X CD-ROM Drive IDE Internal	$79
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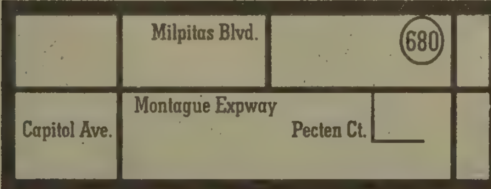

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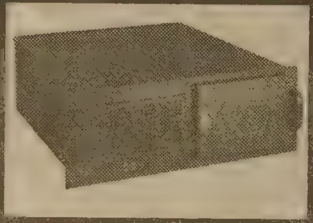

OPTIONS:

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- Custom Modification
- Hot Swappable Redundant Power Supplies

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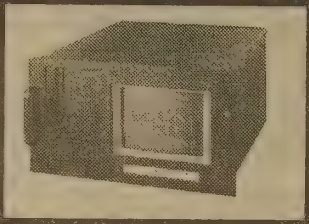

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- 8 Slot Motherboard Mounting
- U.S.A. Manufactured

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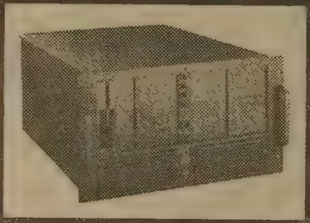

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- Dual Power Supplies
- Power Supply Redundancy Option
- 8 Drive Bays
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- Motherboard or Passive Backplane
- 200-1000 Watt Power Supply
- USA Manufactured

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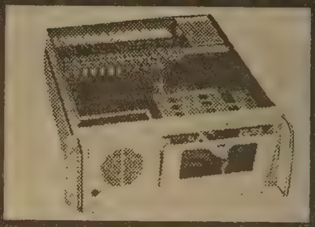

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CPU
Cx486SLC-33 MHz or 80386SX-40 MHz
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512KB-16MB DRAM
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1/2 Size All-In One SBC
CPU
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Cache
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Memory
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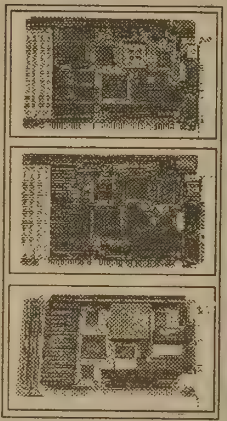
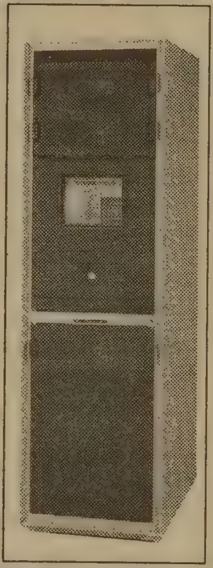
CPU
Cyrix Cx486 or 80486SX/DX/DX2, Clock Rate from 25MHz to 66MHz
Cache
Up to 256KB
Memory
1-64MB DRAM





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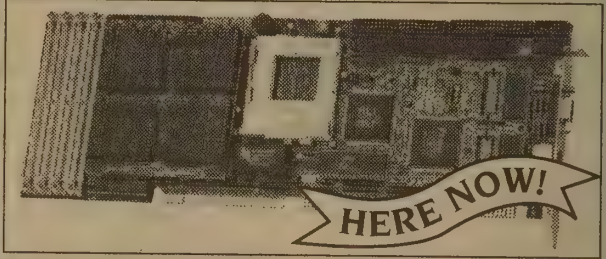

- Supports Intel's Pentium® Series 75/90/100/120/133 MHz CPU
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- Shadow RAM capability
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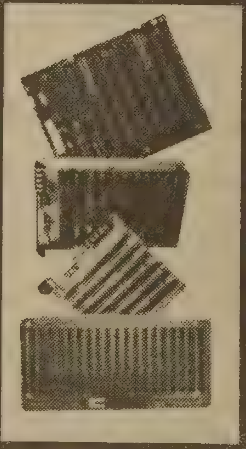

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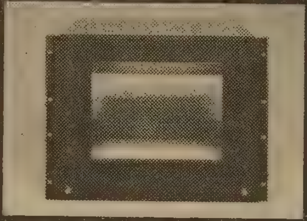
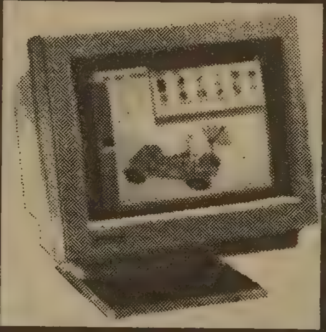


19" RACKMOUNT KEYBOARD



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- CRT 14" DIAGONAL NON-GLARE FLAT
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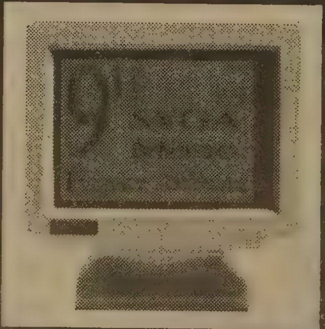

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BCSA 486

VALUE SYSTEMS

- 486 Motherboard w/256K Cache
- 4MB RAM
- 540MB Hard Drive
- 1.44 Floppy Drive
- 14" NI SVGA Monitor .28
- SVGA Video Card w/1MB
- IDE VL Bus with I/O
- 2S, 1P, 1G Ports
- Mini Tower Case w/230W PS
- Enhanced 101 Keyboard
- MS DOS 6.22
- MS Compatible Mouse

Intel DX2-66 .$1015
AMD DX4-100 .$999

BCSA 486

MULTIMEDIA SYSTEMS

- 486 Motherboard w/256K Cache
- 8MB RAM
- 850MB Hard Drive
- 2X CD ROM Drive
- 1.44 Floppy Drive
- 14" NI SVGA Monitor .28
- SVGA Video Card w/1MB
- 2S, 1P, 1G Ports
- 16 Bit Sound Card
- Speakers
- IDE VL Bus with I/O
- Medium Tower Case w/230W PS
- Enhanced 101 Keyboard
- Windows-95
- MS Compatible Mouse
- MS Home Bundle Encarta MS Works, Money, Entertainment Pack

Intel DX2-66 .$1495
AMD DX4-100 $1475

BCSA

PENTIUM SYSTEMS

- P-5 Motherboard w/256K Cache
- 8MB RAM
- 850MB Hard Drive
- 1.44 Floppy Drive
- 14" NI SVGA Monitor .28
- SVGA Video Card w/1MB
- 2S, 1P, 1G Ports
- PCI Controller with I/O
- Medium Tower Case w/230W PS
- Enhanced 101 Keyboard
- MS Compatible Mouse

Pentium-75	**$1349**
Pentium-90	**$1455**
Pentium-100	**$1565**
Pentium-120	**$1765**
Pentium-133	**$1940**

BCSA PENTIUM

MULTIMEDIA SYSTEMS

- P-5 Motherboard w/256K Cache
- 8MB RAM
- 850MB Hard Drive
- 2X CD-ROM Drive
- 1.44 Floppy Drive
- 15" NI SVGA Monitor .28
- SVGA w/1MB
- MS Home Bundle
- 16 Bit Sound Card
- Speakers
- PCI Controller with I/O
- 2S, 1P, 1G Ports
- Medium Tower Case w/250W PS
- Enhanced 101 Keyboard
- Windows-95
- MS Compatible Mouse

Pentium-75	**$1729**
Pentium-90	**$1840**
Pentium-100	**$1950**
Pentium-120	**$2150**
Pentium-133	**$2325**

8MB Upgrade Add $280
4X CD-ROM Upgrade Add $115

BCSA SUPER PENTIUM

MULTIMEDIA SYSTEM

- P-5 Motherboard w/256K Cache
- **16MB RAM**
- **1.2GB Hard Drive**
- **4X CD-ROM Drive**
- 1.44 Floppy Drive
- 15" NI SVGA Monitor .28
- Diamond Stealth SVGA Video Card w/1MB
- 2S, 1P, 1G Ports
- 16 Bit Sound Card
- Stereo Speakers
- PCI Controller with I/O
- Medium Server Case w/2 Fans & 250W PS
- Enhanced 101 Keyboard
- MS Home Bundle
- Windows-95
- MS Compatible

Pentium-75	**$2240**
Pentium-90	**$2350**
Pentium-100	**$2460**
Pentium-120	**$2660**
Pentium-133	**$2835**

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Toshiba 4X Speed CD-ROM SCSI	245
NEC 6X CD-ROM	415
Stereo Speakers	from 10

NOTEBOOKS

NEC UltraLite	CALL
Toshiba	CALL
Texas Instruments Travelmate	CALL

CASES

Mini Tower Case w/230 PS	$45
Baby AT Case w/230 PS	48
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Mid-Tower w/230W PS	69
Big-Tower w/230W PS	95
Server Tower w/Dual Fan	129

VIDEO CARDS

MGP Card	$15
Trident 8900 w/1MB ISA/PCI	65/75
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Diamond Stealth 64 2/4MB VRAM	280/435

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Maxi Nova 101	$25
Keytronic 101	30
Focus 2001	35
Focus 9000	49

HARD DRIVES

420MB Hard Drive	$150
540MB Hard Drive	180
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1.2GB Hard Drive	275
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2GB SCSI Hard Drive	715
4,3GB SCSI Hard Drive	1069

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VGA Mono	109
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Samsung 15" 4NE	375
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ADI 5EP 17"	650
NEC XE 15	599
Samsung 17" GLS17	835
Nanao 17" T2-17TS	1049

CONTROLLERS

IDE Controller 2FD/2HD	$15
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Adaptec 2842VL/Kit	239
Adaptec 2940 PCI	229

MOTHERBOARDS

486SL2-66 MB w/CPU	$155
486DX2-66 VL MB w/CPU	229
486DX4-100 VL MB w/AMD CPU	209
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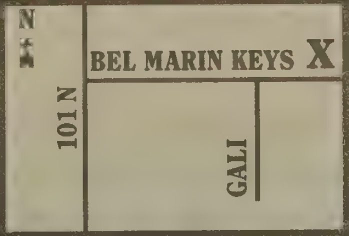

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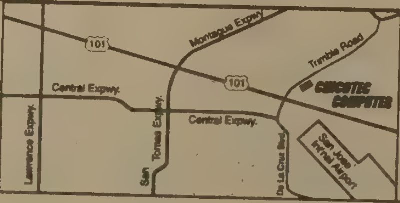

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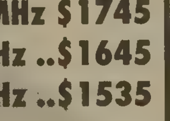

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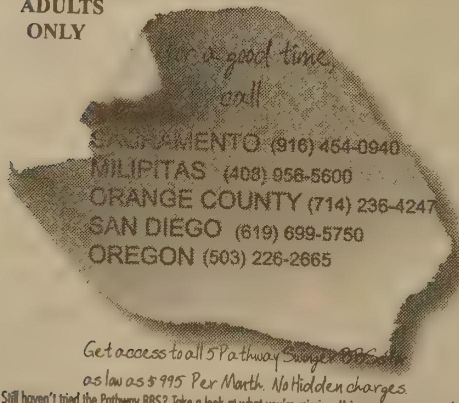

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ETVC BBS. (415)239-8467. 8-N-1, 24 hrs., 2400. TV, TS, TG support. Files, messages, news. No fee. [Exp. #143.]

Flying High BBS. (415)467-2303. 24 hrs., 9600–28,800. Gay/straight XXX, games, L.O.R.D., 18+ verification for adult access. Free. [Exp. #143.]

Gamers BBS. (415)592-4496. 8-N-1, 24 hrs., 14,400. Five nets, 1.2GB and CD online, 25+ doors. Free/donation. Sysop: Gamer. [Exp. #143.]

Games & Stuff. (415)369-1110. 8-N-1, 14,400. Internet newsgroups, email. 20,000+ games, GIFs, utils, 4.5GB. Free/pay. Sysop: Paul Langston. [Exp. #141.]

GameWorld. (415)493-0607. 8-N-1, 24 hrs., 300–14,400. Over 100 games to download, five doors, family oriented. Free! Sysop: Jesse Radin. [Exp. #143.]

Golden Gate Computer Society BBS. (415)457-2516. 24 hrs., 14,400. 2GB of files, 30 min/day free. ILink, Cal.Link: free. Usenet and Internet email: $24/year. [Exp. #142.]

Hints BBS. (415)572-8219. Multiline, high-speed modems. Internet, Fido and RIME conf., files. Great rates! [Exp. #143.]

IBBS West. (415)564-9440. 8-N-1, 24 hrs., 300–28,800. PC and compatibles, shareware, utils., adult GIFs, CD-ROM 13,000 files. Fee. [Exp. #143.]

Interact. (415)961-6911. Telnet: diversion.com . 24 hrs., 1200–14,400. The place for live chat and multiplayer games. 18/over only. [Exp. #143.]

Intimate Images. (415)598-0898. 1200–28,800. Original adult images and video clips. Free samples. No hourly fees! [Exp. #141.]

Kewl BBS. (415)592-8520. 24 hrs., 2400–28,800. Games, files, forums, Action teleconference. Major BBS. [Exp. #141.]

Lincoln's Cabin BBS. (415)752-4490. 2400–28,800. Internet email, Usenet, RIME, files. Low subscription rates. Free trial. [Exp. #141.]

Los Altos Online. (415)948-4148. 24 hrs., 28,800. Family-oriented, no adult material, your favorite newsgroups added free. Free. [Exp. #142.]

The MacDaddy BBS. (415)587-9052. 24 hrs., 14,400. Usenet, BayONLINE, FringeNet, Mac/Win files. Sysops: Jonathan Mergy, Robert Pomon. [Exp. #142.]

Mental Ward BBS. (415)322-2344. 8-N-1 and 7-E-1, 14,400. Free BBS running Wildcat! 4.11. Mainly doors but a few files. Sysop: Ian Turner. [Exp. #142.]

The Message Warehouz BBS. (415)587-4544. 8-N-1, 24 hrs., 14,400. Internet mail, online CD-ROM, conference areas! Online since 1990. [Exp. #143.]

The Mother Ship. (415)665-5496. 8-N-1, 24 hrs., 14,400. How to legally stop paying federal income tax, leading-edge consciousness. [Exp. #142.]

Near Side BBS. (415)369-5063. 8-N-1, 24 hrs., 2400–28,800. FidoNet, local messages, CD-ROM online, friendly users. Free/subscription. Sysop: Adam Tordoff. [Exp. #143.]

The Online Islamic Bookstore & BBS. (415)969-7335. 8-N-1, 24 hrs., up to 14,400. Latest Islamic books, CD-ROMs, and software; knowledge files and more. Free 1hr./day. [Exp. #141.]

The Pyramid/2 OS/2 BBS. (415)494-7497. 8-N-1, 24 hrs., 2400–14,400. Provides the latest in OS/2 files, information. Files added daily. Free. Sysop: Sven Sampson. [Exp. #143.]

realitycheckBBS. (415)648-9489. Freedom of Information, cigars, tech, text files, much more. NIRVANAnet. Sysop: Poindexter Fortran. [Exp. #142.]

San Francisco Online. (415)673-8334. 24 hrs., 14,400. PC/Windows required. Full multimedia interface. Free classifieds. Files, GIFs. Free/pay. Sysop: Debbie Hanson. [Exp. #142.]

Senior Information Online. (415)697-0520. 8-N-1, 24 hrs., up to 14,400. Senior resources, retirement planning, info on Social Security, Medicare, etc. Free. [Exp. #141.]

The ShadowLands. (415)856-3375. 24 hrs., 1200–28,800. Full access for nonporks, FrogSoda. We are water resistant Phreaks. Free. Sysops: Dasium and Shorty. [Exp. #143.]

TamTech BBS. (415)759-5529. 8-N-1, 24 hrs., 2400–14,400. New BBS dedicated to quality shareware files for IBM compatibles. Free. [Exp. #143.]

Toad Hall BBS. (415)595-2427. Full Internet access, Usenet, RIME, Intelec, ILink, more. Free trial. Sysop: Gordon Anderson. [Exp. #143.]

TripLine BBS. (415)341-8248. 8-N-1, 24 hrs., 2400–14,400. New BBS on the block! Files, games, GIFs, chat, more. No fee. [Exp. #141.]

Uncle D's Directory. (415)364-3001. Five V.34 lines. Internet email, RIME, conferences, chat, stores, files, more. Free/fee. Sysop: Dave Spensley. [Exp. #141.]

Urbanite BBS. (415)528-6602. 8-N-1, 24 hrs., 57,600. DOOM game connection, chat, Internet, Windows, multimedia, huge download. Free. [Exp. #141.]

VidGame BBS. (415)742-6486, 369-7356; (510)601-0771. 28,800. Nine nodes. Adult files; 1000s utils.; Internet newsgroups, email, and FTP-mail; more. Sysop: George Hassmer. [Exp. #143.]

510

Albatross! Gardening Club. (510)449-8750. 8-N-1, 24 hrs., 28,800. IBM games, DOS/Windows

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BULLETIN BOARDS cont.

utilities, shareware; Mac files, MVP Software, more. Sysop: Paul George. [Exp. #141.]

Amiga Addicts Anonymous BBS. (510)680-2850. 24 hrs., 1200–14,400. Amiga files only. Free. Sysop: Stanley Poland. [Exp. #141.]

Awaiter BBS. (510)939-9992. 24 hrs., 28,800. Internet, newsfeeds, email, OPUS, UFO, paranormal, anarchy, files, games. Free. [Exp. #141.]

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Beyond Infinity BBS. (510)283-1269,,,*3. L.O.R.D., Usurper, many women in bikinis, messages netted on VirtualNET. [Exp. #141.]

Caxius BBS. (510)895-6961. 24 hrs., 300–14,400. 100+ message bases, active debate forum, 50+ file areas, more. Free! Sysop: Ed Correia. [Exp. #141.]

Dr Jack's Thing. (510)689-4022. 8-N-1, 24 hrs., 28,800. 20,000+ files; Asian, Japanese, other adult GIFs; games; email; much more! [Exp. #143.]

Dragonhead BBS. (510)417-8718. 8-N-1, 24 hrs., 1200–14,400. Thousands of files, LORD, TW2002, Fido, Internet email, friendly. Free trial. [Exp. #143.]

Exodus BBS. (510)886-6513. 8-N-1, 24 hrs., 14,400. ANSI, ASCII, VT-100, TTY. Many shareware files, huge message conferences. Free/fee. Sysop: Fuzz. [Exp. #143.]

For God's Sake BBS. (510)614-8405. 8-N-1, 24 hrs., 300–2400. Discussion on spiritual topics. Invitation to events. [Exp. #141.]

Gold Diggers BBS. (510)568-7807,,,23,23 (,,,25,25 as of Oct. 1). 24 hrs., 2400–28,800. IBM, Atari ST, Amiga, Mac, files, games, and messages. $10/year. Sysop: Harry Goldberg. [Exp. #143.]

Gospel Ministry Through PC. (510)932-8778. 8-N-1, 2400–14,400. Daily devotion readings, Bible promises, etc., ANSI art, RIP graphics. Free. Sysop: Dr. Daniel Maedjaja. [Exp. #143.]

Greater Light BBS. (510)724-9296. 24 hrs., 14,400. Free Christian BBS. Thousands of files, lots of message bases. Sysop: Michael Bryant. [Exp. #141.]

Integrated Systems Online! (510)252-1722. 8-N-1, 24 hrs., 1200–19,200. Online games, discussion conferences, file transfers, adult files, lots of fun! Free/fee. Sysop: Rich Bland. [Exp. #143.]

K 3's Over The Wire Resumes. (510)370-3719. 90-day free resume listing. Free job hotlines. [Exp. #143.]

Krystal Dreams BBS. (510)783-7261. 8-N-1, 24 hrs. No ugly fees!! Just maintain file ratios and read policy. 2GB. [Exp. #143.]

Latino On-Line Access. (510)770-0927. 8-N-1, 24 hrs., 14,400. Latino info, FidoNet, Internet, files, door games, all are welcome. Free. [Exp. #143.]

LiverGulch BBS. (510)606-9846. 24 hrs., 28,800. Four lines. New! Windows-only, multitasking BBS. Science, technology, NASA GIFs, Windows shareware. Sysop: Ken Marsh. [Exp. #143.]

Maddog! BBS. (510)895-8089, 483-0203. 24 hrs., 2400–28,800. 10 CD-ROMs, online games, FidoNet, HotNet, Raider and 49er echos, files. Sysop: Troy Earp. [Exp. #142.]

Online Access. (510)494-1060. 24 hrs. Windows GUI BBS offering free conferences, files, Internet, sports, online games. [Exp. #143.]

The Phantom Zone BBS. (510)538-9586. 8-N-1, 24 hrs., 300–14,400. Three lines. Files, messages, games, echo mail, FidoNet, Internet email. [Exp. #141.]

Pleasant BBS! (510)689-0519,,22. 24 hrs., 2400–28,800. Most new GIFs, games, shareware, adult files, more. Very friendly sysop. Free/fees. [Exp. #143.]

Single Life. (510)796-2895. 8-N-1, 24 hrs., 2400–14,400. A BBS for singles. Local events listing, messages, matchmaker. Free trial. [Exp. #141.]

Terminal One BBS. (510)689-9528. 28,800. Four lines. Files, games; Free Internet email, newsgroups. Multinode chat. [Exp. #143.]

Vampire's Den BBS. (510)536-2640. 8-N-1, 24 hrs., 1200–14,400. Adult-related Doors, files, and message areas. Free. Sysop: Harley Dude. [Exp. #142.]

VisionBytes! (510)355-0968. 28,800. Visioncare topics, referrals. ASP, Apogee, Epic, FidoNet. WorldGroup for Windows. Free. [Exp. #142.]

The VisualAge BBS. (510)685-9585. 8-N-1, 24 hrs., 2400–14,400. Multichat, local echomail nets, doors, three CD-ROMs, Internet email soon. Free/pay. Sysops: David Afana, Gus Damian. [Exp. #142.]

Windows OnLine. (510)736-8343. 8-N-1, 24 hrs., 28,800. Largest Windows BBS. Free limited trial. Telnet: 199.3.100.146; WWW: *http://www:cris.com/wol* . [Exp. #143.]

Wishing Well BBS. (510)745-7901. 1200–14,400. 95+ games, quality files, supports ANSI and RIP, adult files, more. Sysop: MaryLou White. [Exp. #143.]

707

The Party Line BBS. (707)542-3193. 24 hrs., up to 14,400. 12 lines. General entertainment, chatlink each night, home of Excalibur! Free/fee. [Exp. #141.]

Zephyr—The Ultimate CyberBreeze. (707)421-1500. 24 hrs., 2400–28,800. Excalibur system with Internet, games, news, contests, music, files, comics. Free/fee. Sysop: John Zimmerman. [Exp. #142.]

916

EBS MicroSystems. (916)247-1232. 8-N-1, 24 hrs., 300–28,800. 10 lines. IFDC FileGate, 5000 new files a month. FidoNet/PC catalog. Sysop: Bruce Knapton. [Exp. #143.]

USER GROUPS

AMIGA

AWEST Amiga Users In SF. Meetings: 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission St. (near Ocean), San Francisco. Call: (415)474-1164. [Exp. #146.]

FAUG—First Amiga User's Group. Meetings: 1st Tues., 7:30 pm, HT Electronics, 275 N. Mathilda Ave., Sunnyvale. Q&A, new product demos, public domain software. Call: Mike Fischer, (415)855-9816, BBS (415)341-7566, *mikef@hpl.hp.com* . [Exp. #146.]

RAACOON (Redding Area Amiga Commodore Owners/Operators Network). Amiga/Commodore 64/128 support group. $25/year including BBS access. BBS (916)247-1232. Call: Jeff King, (916)221-2651. [Exp. #142.]

TOGA—The Other Group Of Amigoids. Meetings: 4th Sat. (except Nov.), 12:30 pm, Milpitas Community Library Meeting Room, 40 N. Milpitas Blvd., Milpitas. An informal group to share ideas, PD software, and information. Call: Lawrence Brown, (408)526-4487 or Randy Abel, (408)356-9405. [Exp. #146.]

APPLE

SPC Apple User Group. Meetings: 2nd Tues., 6:45 pm, CompUSA, New Park Mall, Newark (I-880 exit west on Steveson or Morey). The Society for Prevention of Cruelty to Apple Computers Users Group supports all Apple and Macintosh computers. Call: Dean Fearn, (510)881-9160. [Exp. #144.]

ATARI

Bay Area Atari Users Group. Meetings: 1st Mon., Agnews Development Center West Campus Auditorium, San Jose. Write: c/o 3691 Eastwood Cir., Santa Clara 95054-2121. Call: Steven Lee, (408)988-3878. [Exp. #144.]

San Leandro Computer Club. Meetings: 1st Tues., 8:00 pm, San Leandro Main Library, Estudillo Room, 300 Estudillo Ave. Call: Robbie, (510)797-5636. [Exp. #144.]

CAD

MAUG—Marin AutoCAD Users Group. Meetings:1st Thurs., 6:30 pm, Autodesk, 111 McInnis Pkwy., Demo Rm., San Rafael (next to Embassy Suites). Call: Priscilla Mills, (415)491-9111. [Exp. #146.]

San Francisco AutoCAD User's Group. Meetings: 1st Mon., 6:00 pm, SFSU Downtown Center, 425 Market St., San Francisco. Door prize every meeting. Call: (415)821-7988. [Exp. #146.]

Sonoma County AutoCAD Users Group. Meetings: 3rd Wed., 6:30 pm, Piner High School, Rm. H-83, 1700 Fulton Rd., Santa Rosa. Call: John Weitzel, (707)525-8147. [Exp. #146.]

South Bay AutoCAD Users Group. Milpitas. Call: (408)282-4448. [Exp. #144.]

COMMODORE

CHUG (Commodore Hayward User Group). Meetings: 2nd Sat., 2:00 pm, Palma Ceia Park Clubhouse, Hayward. Call: (510)531-3734 or 793-7868. [Exp. #145.]

CWEST C64/128. 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission (near Ocean), San Francisco. Call: (415)626-9946. [Exp. #146.]

Diablo Valley Commodore Users Group. Meetings: 3rd Thurs., 7:00 pm, Contra Costa Water District Anteroom, 1331 Concord Ave., Concord. Call: (510)689-3224. [Exp. #143.]

FUNHUG (Fremont, Union City, Newark, Hayward User Group). Meetings: 3rd Thurs., 7:00 pm, Newark Library Conference Room, Newark. For the Commodore 64/128 computer. Call: (510)793-7868. [Exp. #146.]

RAACOON (Redding Area Amiga Commodore Owners/Operators Network). Amiga/Commodore 64/128 support group. $25/year including BBS access. BBS (916)247-1232. Call: (916)221-2651. [Exp. #142.]

DESKTOP PUBLISHING

Bay Area Corel Artists And Publishers (BAYCAP). Meetings: 1st Mon. (2nd if holiday), 7:30 pm, Varian Associates, Bldg. 7, 3075 Hansen, Palo Alto. $5 for nonmembers, membership is $35/year. Call: (408)252-5586. [Exp. #143.]

IBM AND COMPATIBLES

AT&T Computer Users Group. Meetings: 1st Wed., 7:00 pm, 50 Fremont St., 40th Floor—near 1st and Mission, San Francisco. Demonstrations, technical support, informal discussion. Call: (415)885-6631. [Exp. #146.]

Business Operations SIG Of The Software Forum. Meetings: 1st Tues., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10. Call: Mike Schmit, (408)244-6826. [Exp. #146.]

Diablo Valley User Group—DVPC. Meetings: 1st Thurs., 7:30 pm, Bank of America, Bldg. B, Clayton Rd. at Galindo, Walnut Creek. SIGs include Internet, Windows, Beginner's, Visual Basic, education/entertainment, and more. Call: (510)943-1367. [Exp. #142.]

East Bay FOG. Meetings: 2nd Wed., 7:30 pm, Episcopal Church of St. John-in-Montclair, 1707 Gouldin Rd., Oakland. All microcomputers, MS-DOS, CP/M. Call: (510)653-2527, 8 am–10 pm. [Exp. #146.]

Golden Gate Computer Society. Meetings: 4th Mon., 7:00 pm, San Rafael Community Center, 618 B St., San Rafael. Free intro to computers class at 6:00 pm. Call: (415)454-5556. [Exp. #145.]

International Software SIG Of The Software Forum. Meetings: 3rd Mon., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10 Call: Charlie Pfefferkorn, (408)923-7570. [Exp. #146.]

Napa Valley PC Users Group. Meetings: 2nd Wed., 7:30 pm, Call: Lee Schwab, (707)257-2675 or *lee@community.net* for details and location. [Exp. #144.]

PC Clubhouse. Meetings: 1st Fri., 7:30 pm, swap at 7:00 pm, Meiklejohn Hall, Room 2002 (inside 1009), CSU Hayward. Share knowledge and PD/shareware, network of BBSes, mentor assistance, SIGs. Call: (510)276-6450 or 538-2449. [Exp. #144.]

PC Users Group Of The Redwoods. Meetings: 2nd Thurs., 6:30 pm, Santa Rosa Veteran's Memorial Building, East Dining Room, Maple Ave., Santa Rosa. Call: (707)527-USER; or Mel Del Gallo, (707)571-0373. [Exp. #141.]

San Francisco Business Computers. Meetings: 4th Tues., 5:30 pm, 110 Pacific, #153, San Francisco. For those who use computers in business. Visitors $10. Call: Jordan Rosenberg, (415)788-5338. MCI mail: 425-1545. [Exp. #146.]

San Francisco Computer Society. Meetings: 4th Mon., 7:00 pm, Presbyterian Church, 1329 7th Ave., San Francisco. CP/M and DOS, novices welcome. Call: Bob Forsberg, (415)885-6202. [Exp. #143.]

San Francisco PC Users Group. Meetings: 3rd Tues., 7:30 pm, St. Mary's Cathedral, 1111 Gough St., San Francisco. Call: (415)346-2644 or Kendall Callas, (415)821-1310. [Exp. #146.]

Silicon Valley Computer Society—SVCS. Meetings: 2nd Wed., 7:30 pm, Hewlett-Packard, Bldg. 48, Oak Room, 19483 Pruneridge Ave., Cupertino. Call: (408)956-0864; BBS, (408)956-0317. [Exp. #144.]

South Bay WordPerfect User Group. Meetings: 4th Tues. (no Dec. meeting), 6:45 pm, Novell, 2880 Lakeside, Suite 300, Santa Clara. WordPerfect for Windows product presentations and education. Free. Call: Scott Maiden, (408)253-4591. [Exp. #145.]

Stanford Palo Alto PC Users Group. Meetings: last Wed., 7:30 pm, Varian, 3075 Hansen Way, Bldg. 7, Auditorium, Palo Alto. Call: Beverly Altman, (415)329-8252. [Exp. #146.]

INTERNET

Internet SIG Of The Software Forum. Meetings: 2nd Wed., 7:00 pm, Sun Microsystems, Bldg. 6, 2750 Coast Ave., Mountain View. $10. Call: Walt Schilling, (408)764-6475. [Exp. #146.]

Old Town News & Coffee Internet Users Group. Meetings: every Thurs., 7:00 pm, Old Town News & Coffee, 926 Grant Ave., Novato. Hooked staff on hand to discuss setting up Web pages. Call: (415)897-4419 or *oldtown@hooked.net* or *http://hooked.net/users/oldtownnews* . [Exp. #143.]

Tri-City Internet Group. Meetings: 2nd Tues., 7:00 pm, Fremont main library, 2400 Stevenson Blvd., Fremont. Beginners and advanced users, discussions, Q&A, and demos. Call: Andy, (510)494-5400. [Exp. #145.]

LEGAL

BMUG Law SIG/Law SIG South. Meetings: 2nd Wed., 6:00 pm, Nossaman, Guthner, Knox & Elliot, 50 California St., 34th Fl., San Francisco. Call: Randy, (916)661-2280 or *rbs@aol.com*; or Ted, (415)383-4783 or *tllindberg@aol.com* . [Exp. #143.]

SF Bar Assoc. WordPerfect User Group. Meetings: 3rd Wed. odd-numbered months, noon, SF Bar Assoc. Boardroom, 7th Fl., 685 Market St., San Francisco. Brown bag meetings. Call: (415)421-5650. [Exp. #142.]

MACINTOSH

Association Of A32 Users. Meetings: 2nd Sat., 10:00 am, Sunnyvale Community Center Arboretum, 550 E. Remington Ave. (near corner of El Camino and Fair Oaks). Q&A session; guest speakers and vendor demonstrations; shareware, freeware, and PD software disks. Call: (408)263-0398. [Exp. #145.]

BMUG—Berkeley Macintosh User Group. Meetings: every Thurs., 6:00 pm, Warren Hall, Rm. 22, UC Berkeley campus. Call: (510)549-BMUG. [Exp. #143.]

BMUG West. Meetings: last Mon., 6:30 pm, San Francisco Exploratorium. Call: (510)549-BMUG. [Exp. #143.]

CMUG-Christian Macintosh User Group. Meetings: 1st Thurs., 7:00 pm, San Jose. Learn more about your Mac. Monthly newsletter. Call: Rick Thrasher, (408)945-4773 or *RickT5@aol.com* . [Exp. #144.]

Diablo Valley Macintosh User Group (DVMUG). Meetings: 3rd Tues., 7:00 pm, Bancroft School, 2200 Parish Dr., Walnut Creek. Get together with Mac and Performa users. Enjoyable SIG meetings. Call: Tom Bacon, (510)945-4548. [Exp. #142.]

International Macintosh Users Group (IMUG). Meetings: 3rd Thurs., 7:00 pm, Apple Computer, R&D Campus, 1 Infinite Loop, Cupertino. A forum for multilingual/multiscript computing. Call: Roger Sherman, (415)859-5146. [Exp. #146.]

OpenDoc/Macintosh SIG

USER GROUPS cont...

Of The Software Forum. Meetings: 3rd Tues., 7:00 pm, Apple Computer, R&D Bldg. 4, 4 Infinite Loop, Cupertino. $10. Call: Tony Meadow, (510)644-9400. [Exp. #146.]

SPC Apple User Group. Meetings: 6:45 pm, CompUSA, New Park Mall, Newark (I-880 exit west on Steveson or Morey). The Society for Prevention of Cruelty to Apple Computers Users Group supports all Apple and Macintosh computers. Call: (510)881-9160. [Exp. #144.]

TriValley Macintosh User Group (TMUG). Meetings: 3rd Tues., 7:30 pm, Sonoma School, 543 Sonoma Ave., Livermore. Beginners to experts; library, newsletter, SIGs, and a BBS. Call: Jerry, (510)828-0959. [Exp. #146.]

MISCELLANEOUS

California Genealogical Society SIG. Meetings: 2nd Sat. odd months, CGS Library, 300 Brannan St., 4th Fl., San Francisco. All makes, models, and software welcome. Call: Dave Wilma, (415)681-5131 or *DavidWilma@aol.com* . [Exp. #144.]

Marketing SIG Of The Software Forum. Meetings: 2nd Mon., 7:00 pm, Center for Software Development, 111W. St. John St., Ste. 200, San Jose. $10. Call: Stan Trumbull, (408)996-1376. [Exp. #146.]

MOBILE

Mobile/Wireless SIG Of The Software Forum. Meetings: 4th Wed., 7:00 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Call: Dick Roistacher, (415)591-8236. [Exp. #146.]

MULTIMEDIA

Authorware User Forum. Meetings: last Tues. (except Aug./Dec.), 6:30 pm, Scitor Corp., 256 Gibraltar Dr., #C1, Sunnyvale. (510)736-5245. [Exp. #146.]

Macromedia User Group. Meetings: 1st Tues., 6:00 pm, 600 Townsend St. at 7th, San Francisco. For multimedia developers of all levels who use Macromedia products. $5. Call: (415)252-2295. [Exp. #141.]

Multimedia SIG Of The Software Forum. Meetings: 4th Thurs., 7:00 pm, Center for Software Development, 111 W. St. John Street, Suite 200, Downtown San Jose. $10. Call: Dave McCutcheon, (415)506-4238 or Charlie Pfefferkorn, (408)923-7570. [Exp. #146.]

NETWORKING

Apple Network Manager's Association. Meetings: 3rd Thurs., 5:30 pm, Syntex Laboratories, Palo Alto. A forum for discussing problems and solutions associated with managing mixed environments with AppleTalk networks. Call: Bill Woodcock, (510)843-6369, email *woody@zocalo.com* for directions. [Exp. #143.]

Client/Server SIG Of The Software Forum. Meetings: 4th Tues., 7:00 pm, Cubberly Community Ctr., Rm. H-1, 4000 Middlefield Rd., Palo Alto. $10. Call: Patrick O'Brien, (415)726-4664. [Exp. #146.]

NEXT

BANG—Bay Area NeXTStep Group. Meetings: 3rd Thurs., 7:00 pm, Stanford Linear Accelerator Center, 2725 Sand Hill Rd., Menlo Park. For NeXTStep/OpenStep users, technical support questions, demos, development tips. Call: Mike Gabrys, (415)327-BANG; email: *info@bang.org*; WWW: *http://www.bang.org/* [Exp. #142.]

NOVELL

Monterey Novell User Group. Meetings: 3rd Thurs., 40 Ragsdale Dr. in Ryan Ranch off Hwy 68 in Monterey. Call: (408)645-2475. [Exp. #144.]

OS/2

OS/2 BAUG Developers SIG. Meetings: 2nd Mon., 7:00 pm, IBM, 1055 Joaquin Rd., Mountain View. Call: (510)945-7565, ext. 100. [Exp. #145.]

OS/2 BAUG Enterprise SIG. Meetings: 3rd Mon., 7:00 pm, IBM, 425 Market St., 22nd floor, San Francisco. Call: (510)945-7565, ext. 100. [Exp. #145.]

OS/2 Bay Area User Group. Meetings: 4th Mon., 7:00 pm, Stanford Linear Accelerator Center Auditorium, 2575 Sand Hill Rd., Menlo Park. For anyone interested in OS/2. Presentations, demonstrations, question and answer session. Call: (510)945-7565 ex. 100. [Exp. #145.]

PARADOX

bapals (Bay Area Paradox User Group). Meetings: 4th Tues., 5:00 pm, 799 Market St., 8th Floor, San Francisco. Call: (415)995-4688. [Exp. #142.]

Silicon Valley Paradox Users Group. Meetings: 3rd Tues., 7:00 pm, Tandem Computers, 10100 Tantau, Cupertino. User group of the Silicon Valley Computer Society. Call: Scott Jackson, (408)738-0424. [Exp. #145.]

PROGRAMMING LANGUAGES

Advanced C/C++ SIG Of The Software Forum. Meetings: 2nd Fri., 6:15 pm, UC Santa Cruz Extension, 3120 De La Cruz Blvd. (Trimble at 101), Santa Clara. $10. Call: Marian Corcoran, (408)973-1662. [Exp. #146.]

Silicon Valley Delphi SIG. Meetings: 1st Thurs., 7:00 pm, Loral Systems, 1260 Crossman, Sunnyvale. Special interest group of the Silicon Valley Computer Society. Call: Scott Jackson, (408)728-0424. [Exp. #145.]

Silicon Valley Forth Interest Group. Meetings: 4th Sat., 10:00 am–5:00 pm, 230 Lincoln Centre Dr., Foster City. Call: Dr. C.H. Ting, (415)638-5669 (w), 571-7639 (h). [Exp. #145.]

Visual Basic SIG Of San Francisco, Software Forum. Meetings: 3rd Thurs., 7:00 pm, Hotel ANA, 50 Third St., San Francisco. $10. Call: Dov Goreman, (510)525-9525. [Exp. #146.]

Visual Basic SIG Of The Software Forum. Meetings: 2nd Thurs., 7:00 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Call: Allan Colby, (415)851-4567. [Exp. #146.]

TEXAS INSTRUMENTS

TI-99/4A. Meetings: 2nd Sat., Oakland. Need soft-/hardware? Call: Fred, (510)530-8335. [Exp. #144.]

UNIX

AT&T UNIX Computer Users Group. Call: Thad Floryan, (415)961-5157. [Exp. #146.]

Bay Area GNU Enthusiasts League (BAGEL). Meetings: will be decided soon—call for info. Dedicated to the proliferation and understanding of GNU public license software. Call: Erik Hetzner, (415)456-2759 or *erik.hetzner@infoway.com* . [Exp. #146.]

UniForum Open Systems SIG Of The Software Forum. Meetings: 2nd Tues., 7:00 pm, DEC Auditorium, 130 Lytton Ave., Palo Alto. $10. Call: George Bosworth, (415)851-3304. [Exp. #146.]

VIRTUAL REALITY

Virtual Valley, The Silicon Valley And South Bay Virtual Reality Users' Group. Meetings: every two months (next meeting Sept. 7). Fun, information, networking, job leads, technical demos, speakers. $5. Call: Cleopatra Alfenito, (415)824-2536 or email: *virtual_valley_admin@gravity.com* . [Exp. #146.]

WINDOWS

Windows SIG Of The Software Forum. Meetings: 1st Wed., 7:00 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $15. Call: Fran Finnegan, (415)288-4400. [Exp. #146.]

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You can update or renew your listings at any time. If yours is missing, send your listing information to:

US Mail should go to: MicroTimes User Group, 3470 Buskirk Ave., Pleasant Hill, CA 94523. **Faxes** are welcome at (510)934-3958. **Email** can be sent to: JohnDownen@aol.com or *MCI:MICROTIMES.*

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Resources

ASSOCIATIONS

Association For Systems Management & Data Processing Management Association. Meetings: 1st Wed., 5:30 pm, Mountain View. Networking, dinner, speaker; $20 to $25. Call: (408)727-3906. [Exp. #146.]

Association For Women In Computing. Meetings: 1st Wed., 6:00 pm, Stagecoach Restaurant, 44 Montgomery St., San Francisco. $10 members, $15 guests. Call: (415)979-8450. [Exp. #145.]

Bay Area Association Of Entrepreneurial Software Engineers. Meetings: 1st Tues., 6:30 pm. Dinner, lectures, discussion, brainstorming, networking, product development, financing, marketing, distribution. Call: Dr. Ipser, (510)494-8765, [Exp. #145.]

Business Marketing Association. Meetings: 4th Wed., 11:30 am, Marriott Hotel on Great America Pkwy., Santa Clara. A professional organization for business-to-business marketing professionals; CBC certification, topical programs, seminars, job bank. Call: (408)365-9815. [Exp. #146.]

Center For Software Development. 111 West Saint John, Ste. 200, San Jose. Provides resources for self-service testing, prototyping, and porting on many different platforms. Call: (408)494-8378. [Exp. #146.]

Computer Software Industry Association. An association working to keep California safe for the software industry. Call: Kaye Caldwell, (408)479-8743; email: *kaye@ix.netcom.com*; Web page: *http://www.well.com/user/csia/*. [Exp. #146.]

Independent Computer Consultants Association. Meetings: 2nd Tues., 6:00 pm, The City Club, 155 Sansome St., San Francisco. Open discussion, questions and answers. Call: (415)399-0305. [Exp. #145.]

International Interactive Communications Society. Meetings: 2nd Tues. Professional association for individuals involved in multimedia, from marketing to graphics and programming. Call: (415)553-2202. [Exp. #142.]

National Writers Union. Meetings: 1st Wed., location changes. Monthly meeting for professional technical writers. Call: Andreas Ramos, (415)709-1176 or email: *andreas@netcom.com* . [Exp. #146.]

North Bay Information & Technology Association. Meetings: monthly, North Bay's premier trade organization for software and information technology professionals. $20 for nonmembers. Call: 1-800-457-5570 or (415)382-1108. [Exp. #141.]

Society For Technical Communication, San Francisco Chapter. Meetings: 3rd Wed., 6:00 pm, program at 6:45 pm, Stagecoach Restaurant, 44 Montgomery St., San Francisco. Job listings, guest speakers, technical publications competition, newsletter. Call: (415)985-7121. [Exp. #146.]

Society For Technical Communication, Silicon Valley Chapter. Meetings: 3rd or 4th Thurs., 5:30 pm refreshments, 6:30 pm dinner, 7:15 dessert. Sunnyvale Hilton, 1250 Lakeside Drive (off Lawrence Expressway at 101). Guest speakers, special interest groups, networking, job listings, newsletter. Call: (408)737-9426. [Exp. #143.]

Software Forum (formerly SEF). Meetings: 3rd Wed., 6:30 pm, Elks Lodge, 4249 El Camino Real, Palo Alto. Industry association dedicated to software developers and entrepreneurs, offering information and education on all facets of the software industry. Call: Barbara Cass, (415)854-7219. [Exp. #146.]

MultiMedia & BEYOND

AMIGA *continued from page 286*

double quotes. In any event, this feature provides a quick way to convert between feet and meters or vice versa.

One feature missing from the PC version is the moving Preview. You can show a solid preview of your objects, but they can't automatically rock back and forth. This is a nice feature in the Amiga version because it gives you a better 3-D feel for an object.

WHAT ELSE?

Hiip support will be implemented in the final version so you'll be able to save and load images in many formats. Modeler will also be able to load and save DXF, Wavefront, and 3D Studio objects. There are new updated manuals for Layout and Modeler, plus a short addendum for added features.

SPEED

It has been well documented that for raw rendering power a Pentium PC will beat an '040 Amiga, but the upcoming '060s should help narrow the gap.

However, neither can compare with a DEC Alpha. I had the opportunity to see one in action at T. S. Computers in North Hollywood. After seeing it render one of the sample LightWave scenes, with all raytracing options and antialiasing on high, in the time my machine does a wire-frame preview, I got a really bad case of hardware envy.

SYSTEM REQUIREMENTS

PC LightWave needs a 386/486, Pentium, Alpha, or MIPS CPU, Windows (NT or 3.1 or later), 16MB RAM, 20MB hard drive space, and a Super VGA display (640 x 480 x 256 colors minimum). (There will be a version for SGI also.)

The package includes a ton of objects, surface files, scenes, and images. Beginners will find this particularly helpful. Besides, it is kind of cool being able to render something created by some of the masters of 3-D.

ALWAYS A STEPCHILD

Despite some glitches here and there, LightWave on the PC seems every bit as good as it is on the Amiga—some things are better, some worse. Of course the nice thing about running it on the PC is that you have access to a plethora of software and hardware.

For now, Windows NT is the OS to use. It's faster than Windows 3.1 (reportedly up to two times faster), 32-bit throughout, has preemptive multitasking, and supports long filenames. We'll have to wait and see if Windows 95 is a good alternative. For the CPU, the DEC Alphas provide the most bang for the buck.

The ironic part of all of this is that if an Amiga user opts to run NT and a DEC Alpha, he'll still be a "stepchild." I can't say I've seen too many native NT software packages compiled for the DEC Alpha at Target or CompUSA. (It's never a perfect world, is it?) ■

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MultiMedia & BEYOND

NEW GAMES

continued from page 290

Player online service; *Agile Warrior: F-111X* has a multiplayer option. *NBC Sports Presents the 1995–1996 NFL Interactive Yearbook* will stay up-to-date with access to RealTime Sports Online; *Tri-Tryst* can engage in network or modem play for head-to-head competition; and players in *Z* can battle against another player using a serial or modem link or link up to four machines on a network. Online games through the Internet and the World Wide Web are an increasing presence that will soon link millions of players together.

RESOURCES:

Virgin Interactive Entertainment
180061 Fitch Ave.
Irvine, CA 92714
(714)833-8710

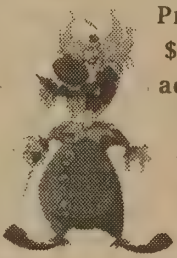
Coriolis Group Books
7339 E. Acoma Dr., Ste. 7
Scottsdale, AZ 85260
(602)483-0192

Hayden Books
11711 North College Ave.
Carmel, IN 46032
(317)573-2583

Ziff-Davis Press
5903 Christie Ave.
Emeryville, CA 94608
(510)601-2000

NET STUFF

Netscape & HTML Explorer by Urban A. LeJeune with Jeff Duntemann (Coriolis Group Books, 723 pp+CD, $39.99) is one of the best all-around Web references you will find. Everything is here to getting online, creating home pages, editing and maintaining them, and configuring and customizing Netscape. The CD includes tons of Web publishing goodies. But this package is just as useful for understanding all the parts of the Internet and reading HTML documents.



Atlas to the World Wide Web by Bob Powell and Karen Wickre (Ziff-Davis Press, 220 pp+CD, $29.95) provides an accessible introduction to the paths of cyberspace, which includes a fold-out roadmap and a directory for hundreds of cool sites that is clear and stimulating. The CD contains the fully hyperlinked addresses and the Netlink Internet Access Kit.

Now that you've got your Web legs, its time to turn to *The Internet International Directory* by Mitzi Waltz (Ziff-Davis Press, 526 pp+CD, $34.95) with over three thousand Internet sites from "the practical to the truly bizarre." With the CD in your drive, its click 'n' link. Now, with the invisible borders of the international Internet, a regional guide of site URLs might seem to be redundant. But *Internet San Francisco* (Hayden Books, 118 pp, $12), one of a series, helps us to see how our village is global and to connect with it. You will find local grassroots discussions, university access, restaurant guides, weather, museums, and classifieds. And it will fit into your laptop case. ■

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MultiMedia & BEYOND

MULTIMEDIA 101

continued from page 275

much unless you'd saved or marked shortly before the jam anyway but would be convenient if you wanted to watch only the first half and then reenter the title at a later date. You could spend a fair amount of time sequentially clicking through the scenes until you got to where you wanted—but the title is liable to jam at the same spots. So, you might try the timeline. Easier said than done. Firstly, if you were to check the timeline to see where you were, you wouldn't find out because it doesn't indicate where you are. Secondly, the timeline is off by a whole complete year! If you want to go to what the *Oracle* database indicates as early 1967 in the Tune In section, you must actually click on early 1968 in the timeline! If you try to access the scene through the Roll Your Own Show feature, you can only run that particular scene unless you select a whole series of scenes. It's all a bit confusing and aggravating, although with adroit navigation and mouse clicking you can eventually overcome the problems when the title jams.

RESOURCES:

***Haight-Ashbury in the Sixties!*, $49.95**
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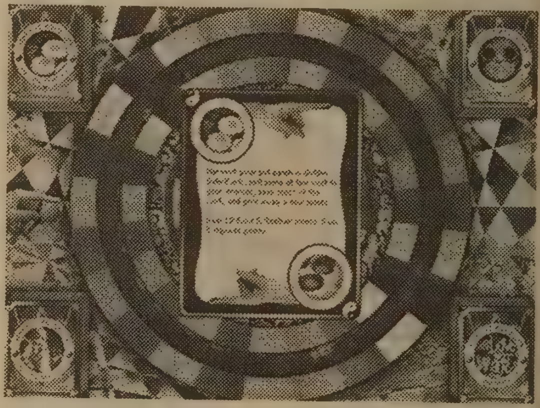
Gualala, CA 95445
(707)884-4413
Email: *tony@rockument.com*
WWW: *http://www.rockument.com/*

Adding to the annoyance is the fact that whenever you reenter the Turn On or Tune In sections you have to wait while the introductory clip explaining the section loads before you can access the navigational controls you want. The truth is that, as far as simple random access to information is concerned, a book with a good index is quicker and easier. The requirement of multiple clicks is also a problem in the Drop Out game where each turn becomes increasingly tedious with at least two clicks and mouse movement required.

The sound, particularly in the Turn On section, also has basic problems. Some of it is very hissy and, as the title plays, Cohen's narrative becomes very stop-and-start jerky with strange gaps not only between phrases but even in the



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MULTIMEDIA 101 *continued...*

> **The tide of youthful rebellion rose nearly simultaneously in many places and eventually swept through most of the globe, perhaps having further-reaching effects in countries such as Czechoslovakia than in the United States of America.**

middle. It's very disorienting and annoying and quite seriously undercuts much of what he says. The shorter segments in the Drop Out game run much smoother.

It's not such a big problem, but at least two of the links from the Tune In database are reversed, taking you to the other's piece of artwork.

However, as anyone who's tried it knows, a project of this size using currently available technology is a major undertaking. Many of these difficulties appear to be the result of factors beyond Rockument's control. In particular, I'd guess that a good number of them were due to the title being cross-platform, using "vanilla Director and Lingo," as Bove puts it, without X-objects and other system-specific enhancements. Depending on the type of title involved, the costs associated with this approach can be high. For example, in this case, all the text is bitmapped—no cutting-and-pasting from *Haight-Ashbury in the Sixties!* for your kid's homework—and there's no search engine; one would have been nice, although it's not a fatal flaw with the generally very-easy-to-scan aspects of the Tune In database.

Even with these shortcomings, *Haight-Ashbury in the Sixties!* is a successful multimedia piece. The discs are stuffed full of valuable archival material that should be of use or entertainment to anyone with any interest in the hippie iteration of Bohemian proto-culture. ■

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OS/2 *continued from page 72...*

On Objectivity

I am well aware that OS/2 users want to read about solutions, about things that do work. As a supporter of OS/2 since v1.x, that's what I always wanted—and prefer—to write about. But what if, in the course of looking at or testing a plethora of hardware and applications, one runs into frequent problems and encounters poor support?

Should I focus only on what works? Should I "balance" the positives and negatives by giving them equal weight despite their inequality in reality? Would either be an objective picture on which readers could form opinions and base decisions? Or perhaps, as a letter to the editor suggested, should I leave the column to someone who "believes" in OS/2?

I've constantly struggled with this dilemma and I actually do ignore some of the problems in the interest of the larger causes of (a) helping OS/2 users so that they, in turn, (b) won't feel compelled to support an OS monopoly in the PC world, a serious damage in the long run.

But a writer has to exercise extreme care not to fall into the advocacy trap; in my opinion, the mainstream press provides clear evidence of how hard that is. There are constant pressures (some blatant, most subtle, and many already internalized by writers) to "be positive"—dependency on the availability of products and help from vendors for reviews, and flaming partisan complaints trying to exploit sysops' and editors' reluctance to antagonize their constituencies, which can be quite effective.

Users in general, and OS/2 users in particular, should exercise care in distinguishing between advocacy and objective coverage. There was a lot of the former in the mainstream press *against* OS/2, which damaged it considerably. But the solution is not to counter it with the same *for* OS/2, for that can mislead and damage as badly.

continued on page 348

PARAMOUNT COMPUTER of EAST BAY

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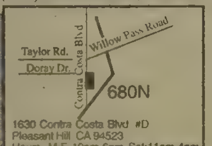

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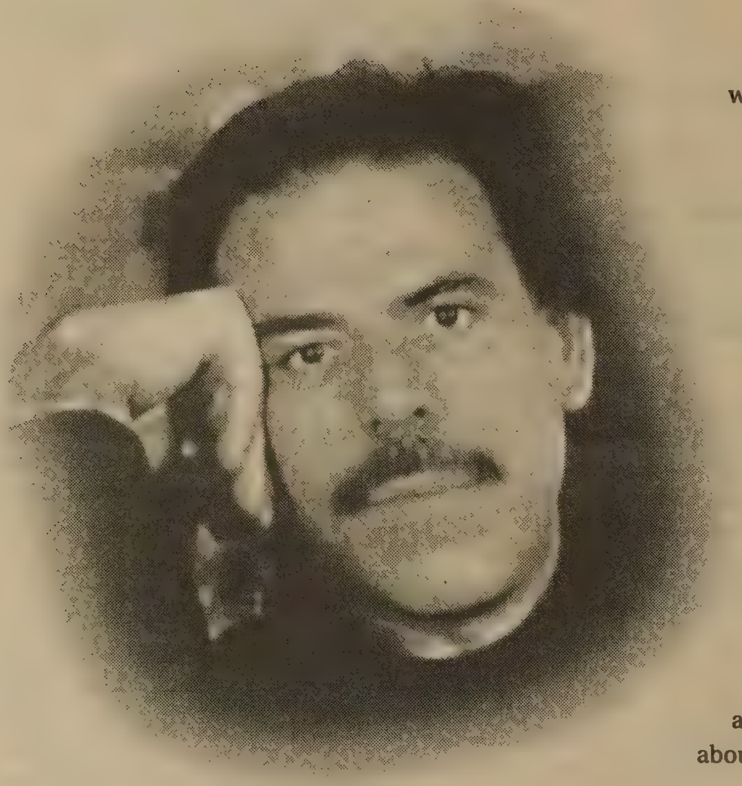
Max On Art...

continued from page 143



the stage designer, for the film director...for all the creative people. Engineers are creating the insides of the system. What I want to add is the outer layer, the personality of the screen, how it interfaces with you, how you get to love it.

The thing is to make working with these machines so pleasurable and so friendly, more than friendly, irresistible, that you could hang out all day. Right now, for these who hang out all day surfing the net, it's more inquisitive. It's not so enjoyable.

Are the tools getting any easier and better to use?

Yes. We have amazing equipment here and I've got people who are very savvy using it. I'm pretty good on some of it, but they're really good. And I am really good in directing them.

What does your toolbox look like?

I create most of my work still with my hands. We were talking before about Peter Max the creator of future electronics, dressing it all up. I may do that partially on a computer, partially outside a computer. It's all a mixture. It's never all inside, all outside. Just like our lives, it's all a mixture.

We have all the programs, and we've got SGI equipment. I've got a dozen people working on things. I come up with the concept then we figure out the best way of using it.

If I had to give advice to artists around the country I would say, "Don't stop drawing." The skill you get when you have your pen on paper is a skill you should never lose. It is something that develops the conceptual mind. I always tell younger students to always draw, every day. I make about twenty, thirty drawings every day, minimum. It keeps that creative notion in my brain alive. I think by using the wrist—the fingers and the hands around the pen—a linkage develops between your hand and your brain. You develop this subliminal, unconscious, creative, instant-playback kind of thing. So if you wanted to do something, it happens. But if you don't use it, you lose it. Most people, if they use the toolbox, they don't draw outside anymore. It has to be a balance of both for creative people.

> Information is almost like the rock-and-roll of the 90s.
>
> There's as much discussion about the information age as there was about rock-and-roll maybe a decade earlier.

And what do you tell the other side, the developers? The people who are making the digital tools.

Just to make it faster and easier; give them broader range.

Scanners are very important. You create a piece of art, you scan it in, you manipulate it, do something to it, then print it out again. Then with a blade cut it a little bit, collage it, maybe scan it in again. And the beauty with digital is if you put it in once, two, three times you don't lose anything. You are getting the same quality out again.

One of the criticisms I hear from graphic artists about working with computers, is that it's dry, almost too exact, that the spontaneity is missing.

Half of creativity is using a mistake. What about when you do watercolor and it drips wrong? Or you mess it up? That becomes the new find.

Maybe future watercolor programs will have "faults." So as you are working, it drips on the paper, "Oh boy, let me fix it or leave it." Sometimes when it drips, "hey, I love the drip," or when the water bleeds too much it has a nice look. Whereas now, it is very, very exact.

I tell a lot of the people who work with me, "Please let me see layouts done in pen and pencil. Don't give me rightaway a computer thing." You can get more thinking on the sketchpad—you doodle, you scratch it... Then, bring out the right fonts, bring in the paintbox, catch the right colors, position it, move it around, get it exact, print it out. But when the thinking has to happen on the computer you get limited. But when you are working outside of it, with a pen and pencil, you are able to have a little bit extra fantasy.

On the computer, you want to use outside things mixed in. I think that's the broadest range an artist can get—something found outside, something slightly accidental, something very creative where it's a surprise, and the computer with all its tools. That's the nicest, that's when you have a really nice spectrum of range.

Do you see barriers for people to work with computers?

Max On Art... *continued.*

work with computers?

I hope that the computer age won't turn us into less creative people. Years ago, if you went to Paris, Rome, or Milan, you used to see these amazing, hand-carved stone sculptures all over. But now, you only see what was done a hundred years ago. And I would say that in the whole world there could be maybe less than a handful of people who know how to do that type of sculpture. It's too expensive, it takes too long. A student does not spend eleven years in art school studying that. Today, as soon as the parents know that their child can draw a little bit, what happens? They get a computer. So these skills are not developed in the artist.

The computer is the most wonderful tool that has come along in many years, maybe ever. But it should not be there to the detriment of the human skill—of mental conception or physical hand skills, like drawing or using a brushing. If I was head of a large computer firm with lots of creative people working for me, I would create a space where everyone would take an hour or so to do creative art exercises outside the computer environment, like finger painting, doodling, sketching, and discuss wild creative ideas—not computer ideas.

During the '60s and '70s your art seemed to be everywhere, what happened to you in the '80s? Did you stop painting?

Actually, everyone thinks that. I never stopped creating. I tooktime off from 1970/71 and came back out in the public by '88/'89. Those eighteen years I drew and painted a lot. I was working at my skill and I got really good at my craft. The retreat was really more a retreat from media, I had a little too much media. I was on the cover of *Life* and about 150 other magazines. It got me into a world that took me away from my easel. So, I told everybody I am taking off two or three months to paint and think random ideas. The three months stretched into a year... then two years...and before I knew it eighteen years went by and I had created thousands of beautiful canvases and many creative ideas.

But every year, during this retreat I would emerge and do one or two big art events like my US Border Murals, paintings for our presidents, a US postage stamp, even conceiving the idea of renovating the Statue of Liberty.

And today, where do computers fit in?

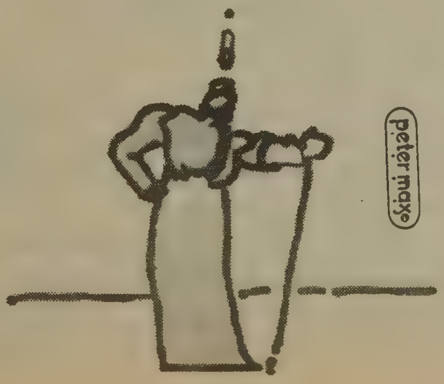
Over the last couple years I have been playing with a lot of PDAs and laptops. I love them because I can use them when I am in transit—waiting for a flight, on the airplane, it doesn't matter where I am. I'm also crazy about SGI's equipment—they create the most amazing tools of life for an artist.

I just took another floor in my building—another 10,000 feet for an electronic media lab. It will be a creative studio where we can create the user-irresistible imagery that will be the leading edge of graphics for the operating system of the 21st century. This is where I have been spending a lot of my creative time lately—inventing new worlds for operating systems of the future computer world. The Max look with Max icons and Max screen savers will be very personalized, so that you as a writer, for example, can have a different screen with different images than I do as an artist.

How do you see issues of control and ownership of what you create in a digital world?

I would say that it is all still developing, but everything is going to be coded like DNA so that it's going to remain yours always. In other words, when you break down a fractal, inside will be the copyright and the owner.

Today, people are sampling music. They take a piece off another person's music, then they stretch it, they change it slightly, then they'll even play it backwards and use it in their own music as theirs. But in the future, it'll be coded. So, if somebody says, "I know this is mine backwards and stretched" they can check it. I've seen things of mine be used, but changed a lot, and when we check it out we always know where it came from.



Will there be a Peter Max home page in the near future?

Yes. SGI is hooking me up on an Indigo Web server. People are going to be able to come to us through our home page, on the Web. Sometimes speak to me, sometimes tune into short footage, sometimes read biographical things, see where artwork is available, what cities have Max exhibits, what are my latest productions and what are my latest notions. We are going to share that with the planet. We get lots of fan mail all the time.

You are expecting to have that up soon?

Yes, in the next thirty days.

Some observers have drawn links and comparisons between the spirit of the '60s and the new digital age, not only in terms of people from both generations being involved but also more generally in the creative environment surrounding both eras. As someone with a foot in both decades, would you agree?

I think that the '60s inverted into the '90s. The '60s were a generation and a decade where a lot of creative ideas came to the surface. So much so it was like a strong evolutionary moment; it almost looked like a revolution. The kids were marching in the streets, there was anti this or for that, everything had to change. This is also when we first saw planet earth from a satellite photo, the first time man ever gazed at itself on the planet. We discovered ourselves and said, "Hey, there are no borders on this planet. There has to be peace. What is this nonsense with borders and countries?"

From the '60s on, the ideas began to be actualized. I said earlier how we would be walking in Central Park and say, "Why don't they do something about it?" Now we are they and if you look around the planet today there are tens of thousands of organizations that are working to save the environment, protect human and animal rights, and make the world a better place. There's a tremendous change to the good that occurred from the '60s. Before, I said that the '90s are the '60s actualized...now the good we do in the '90s will be actualized in the year 2010. ■

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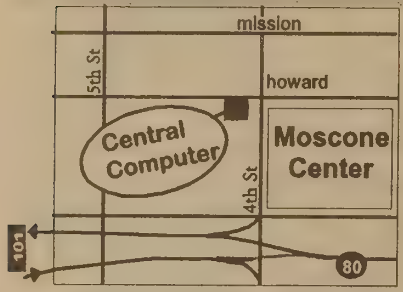

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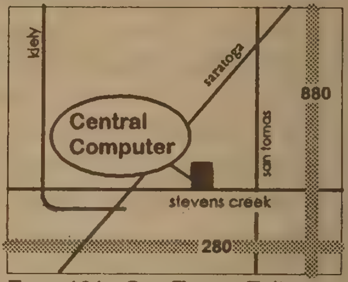
Email address:
CentOn@aol.com

SANTA CLARA



From 101 - San Tomas Exit
From 280 - Saratoga Ave Exit
From 880 - Stevens Creek Exit
(between Saratoga & San Tomas)

PC SYSTEMS

Central System # 1 : 486 Green VLB

Intel 486-DX2-66 CPU
CPU Cooling Fan
4MB RAM Memory (4 of 30-pin, 70-ns Simm)
Teac 1.44MB Floppy
IDE & FD Controller & I/O (2S 1P)
Baby Tower Case w. 200W Power
Spill Resistant 101 Keyboard
Conner or Maxtor 420MB IDE Hard Drive
Oak 087 Super VGA 1MB Card
Standard Technology 14" 1280 x 1024 .28 NI Monitor
Microsoft Serial Mouse

LYNX / SHUTTLE 486-DX2-66 ISA VLB $999

Special : 486 PCI
LYNX 486-DX4-100 4PCI 2VLB $1099
Intel 486-DX4-100 CPU
4MB RAM (1 of 72-pin, 70-ns Simm)
* Others same as above

Central System # 2 : 486 Multimedia Tower

Intel 486-DX2-66 CPU
CPU Cooling Fan
4MB RAM Memory (1 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Built-in IDE & I/O on board
Baby Tower Case w. 200W Power
Mitsumi or Keytronic 101 Keyboard
Conner or Maxtor 420MB IDE Hard Drive
Oak 087 Super VGA 1MB Card
Standard Technology 14" 1280 x 1024 .28 NI Monitor
Microsoft Serial Mouse
*** Optional Upgrades*

MICRONICS 486-DX2-66 ISA 2VLB $1039

MICRONICS JX30WB 486 ISA VLB $1099

AIR 486-DX2-66 ISA 3VLB $1049

*** Multimedia Upgrade Options (please add):*
Panasonic 2X + SB 16 + 40W Speakers ($205)
Sony 2X + 16 bit IDE Sound Card + 4W Speakers ($175)

Central System # 3 : 486 Value Station

Intel 486-DX2-66 CPU
CPU Cooling Fan
8MB RAM (1 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Built-in IDE & I/O on board
Mid Tower Case w. 230W Power
Mitsumi or Keytronic 101 Keyboard
Conner or Maxtor 420MB IDE Hard Drive
Kelvin 64 VLB 1MB or Stealth 64 DRAM VGA Card
SRC-1502 15" or Mitac M1564 15" Monitor
Microsoft Serial Mouse
*** Optional Upgrades*

AIR 486-DX2-66 ISA 3VLB $1449

MICRONICS 486-DX2-66 2VLB $1439

*** Multimedia Upgrade Options :*
Any 2X or 4X Multimedia Kit available

For MICROSOFT DOS 6.22 & WINDOWS 3.11, add $79

All systems are upgradable (memory, HD, VGA, monitor, keyboard . . .) for the price difference.

Central System # 4 : Pentium IDE Station

Intel Pentium CPU
CPU Cooling Fan
8MB RAM (2 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Kouwell I/O (2S 1P 1G)
Mid Tower Case w. 230W Power
Mitsumi or Keytronic 101 Keyboard
Conner or Maxtor 420MB Hard Drive
Kelvin 64 PCI 1MB or Stealth 64 DRAM VGA Card
SRC-1502 15" or Mitac M1564 15" Monitor
Microsoft Serial Mouse
*** Optional Upgrade*

INTEL 586-90 / 100 PCI Triton $1799/$1889

SUPER P54Ci 586-90 / 100 PCI $1759/$1849

MICRONIC M54Pi 586-90 3PCI $1849

*** Multimedia Upgrade Option (please add) :*
Teac 4X IDE + SB 16 + Mini Speakers ($245)

Central System # 5 : Pentium SCSI Station

Intel Pentium CPU
CPU Cooling Fan
8MB RAM (2 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Built-in IDE & I/O on board
Adaptec 1522A SCSI Board
Mid Tower Case w. 230W Power
Mitsumi or Keytronic 101 Keyboard
Quantum MV-540A 540M SCSI Hard Drive
Kelvin 64 PCI 1MB or Stealth 64 DRAM VGA Card
SRC-1502 15" or Mitac M1564 15" Monitor
Microsoft Serial Mouse
*** Optional Upgrade*

MICRONIC M54PI 586-90 3PCI $1955

INTEL 586-90 / 100 PCI Triton $1899/$1989

SUPER P55CWA 586-90 / 100 PCI $1915/$1999

*** Multimedia Upgrade Option (please add) :*
Sanyo 4X SCSI + SB 16 SCSI + 40W Speakers ($265)

Central System #6 : Pentium CAD Station

586-100MHz Pentium CPU
CPU Cooling Fan
16MB RAM (2 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Built-in IDE & I/O
Mid Tower Case w. 230W Power
Mitsumi or Keytronic 101 Keyboard
Conner or Maxtor 1.2GB IDE Hard Drive
Diamond Stealth 64 2MB DRAM PCI Card
Mag DX15 15" 1280 x 1024 .28 NI Monitor
Microsoft Serial Mouse
*** Optional Upgrades*

INTEL 586-100 / 133 PCI Triton $2495/$2835

MICRONICS P54Hi 586-100 3PCI $2535

SUPER P55CMS 586-100 / 133PCI Triton $2559/$2899

*** Multimedia Upgrade Options :*
Any 2X or 4X Multimedia Kit available

- No surcharge for Visa, MC, Discover & Amex
- Reseller and quantity pricing available
- Gov't, universities and qualified firms purchase orders accepted on approved credit
- Prices are subject to change without notice and to stock on hand
- Financing plan available OAC
- Not responsible for typographical errors

VISA DISCOVER MasterCard

CENTRAL
COMPUTER SYSTEMS INC.
WIDE SELECTION AT LOW PRICES

SF STORE

TEL : 415 495-5888 FAX : 415 896-5888
837 Howard Street, San Francisco CA 94103

HARDWARE

1. CD DRIVE & SOUND CARD

SALE!

CREATIVE LABS

CD 531 w. Kit Ext.	69
Digital School House CD Kit Int w. 20 titles	*(239)
Discovery 16 CD Kit w. 18 titles	275
Discovery 4X CD Kit w. 20 titles (new)	345
Edutainment CD 16 Int w. 42 titles	385
Midi Kit + Software	65
Omni 4X SCSI-2 w. 4 titles	*(249)
SB 16 Value / SB 16 IDE (Vibra)	95/79
SB 16 MCD oem / w. ASP	79/95
SB 16 SCSI-2 oem	109
Sound Blaster Pro oem	35
Sound Blaster 32 IDE (new)	155
Sound Blaster AWE 32 w. ASP	245
SB Multimedia Home 4X Kit w. 24 Microsoft CDs.	399
Sound Blaster Multimedia Office Kit	*(479)
Video Blaster MP-400 / Wave Blaster 2	255/165

CHINON

CDS-525 280ms, 300Kb/s, 2X SCSI Int	***(129)**

DIAMOND

4000 4 Speed Multimedia Kit w. 11 titles	299
5000 4 Speed Multimedia Kit w. 30 titles	379
7000 4 Speed Multimedia Kit w. 22 titles	379

MITSUMI

FX400 230ms, 600Kb/s, IDE 4 Speed Int	159

NEC

6Xi 6 Speed Int oem / reg.	379/465

PANASONIC

CD-562 / w. SB16 & speakers	***(69/145)**

PIONEER

4 Speed, 150ms, 614Kb/s, IDE Int	185
4 Speed, 150ms, 676Kb/s, SCSI Int	249

PLEXTOR

PX-43CH 220ms, 600Kb/s, 1MB, 4X Int	389
PX-63CS 145ms, 900Kb/s, 32k, 6X Int	449

SANYO (Concord)

CDR-H93 66ms, 600Kb/s, 4X SCSI-2	199

SONY

CDU-55E Double Speed IDE Int	99
CDU-76E 4X 250ms, 600Kb/s IDE Int	155
CSD-760S 4X SCSI w. Adaptec 1515 Kit	289
PRD-150 Portable 2X w. PCMCIA Kit	385

TEAC

CD55A 195ms, 4X ATAPI, Int	***(149)**

TOSHIBA

3601B 150ms, 600Kb/s, 4 Speed Int	289
XM-5302B 4 Speed IDE Int	***(155)**

TURTLE BEACH

Monte Carlo Game Card	95
Monterey Multisound / Tropez Sound Card	329/225

OTHERS

16 bit IDE Sound Card	59
Adaptec Audio Edge SCSI	199
Adventure Multimedia 4X Upgrade Kit	335
CD Carring Case (holds 40 CDs)	***(9.99)**
CD Jewel Case	***(0.55)**
CD Pop-Out Storage Case (holds 30 CDs)	19.99
Family Library Multimedia 4X Upgrade Kit	329
Gravis Ultrasound	*(119)
Gravis Max 32 Voice w. Doom II	***(175)**
Jazz 16 SCSI Sound Card	***(59)**
SIIG Play Computer Games On TV	149
Tvator Pro PCMCIA VGA to NTSC Scan Converter	139
Tvator Remote Pro VGA to NTSC Scan Converter	289
Wav Jammer 16 bit Stereo PCMCIA	275

Rewritable CD Drives :

Kodak PCD-Writer 225 Ext	1895
JVC CD Writer (w. Adaptec, cable, software) - 2X Int / 2X Ext / 4X Ext	1875/2050/4165
Philip CDD-522 2X Int (w. software)	2145
Pinacle RCD-1000 PC Ext	***(1695)**
Ricoh 2X Int (w. software)	1575
Yamaha CDR-100 4X Int / Ext	2450/2575

Speakers :

Active 75 (80W) / Active SP-690	49/35
Altec ACS52 / ACS53 / ACS150 / ACS300.1	99/129/105/215
EP-68 (70W)/ EP-88 (80W)/ EP-8803 (100W)	35/42/45
EP-120 (120W) / EP-280 (40W)	65/29
Labtec CS150 / PC-60 Multimedia (2W)	*(14.95)/7.50
Mini Speakers (4W)	***(4.99)**
Yamaha YSTM-10 (10W)	***(69)**
- YST: 25W / 31W / 45W	155/185/215

2. CASE

Baby AT w. 200W / Baby Tower w. 200W	59/59
Mid Tower w. 230W Power	75
Mid Tower w. Side Door Open, 230W Power	79
Mid Tower w. 250W Power : Black / White	139/129
Full Tower w. 250W Power	119
Full Tower w. 300W Power : Black / White	199/189
Slim w. 230W Power (2 drive bay)	75

HDD External Casing :

2 half ht or 1 full ht for PC, 60W, w/o cable	95
3 half ht or 1 full ht & 1 half ht, 60W, w/o cable	109
4 half ht or 2 full ht, 200W, w. cable	129
7 half ht or 3 full ht & 1 half ht, 250W, w. cable	239

ANTEC

CD Rom or 5.25" External Casing	65
3.5" HD External Casing	59
KS-011+RPP3002: 19 Bay Server (9 front,10 int. bay) 300W,Hot-Swap + Redundant P/S, 2 Cooling Fan	599
KS-011+RPT600: 19 Bay File Server (9 front,10 int. bay) 300W Redundant Vertical AT P/S, 2 Cooling Fan	479
KS-022+RPP3002 : 8 Bay Tower Case 12 Slots, 300W Hot-Swap + Redundant P/S	399
KS-022+RPT600 : 8 Bay File Server 12 Slots, 300W Hot-Swap + Redundant P/S	279

3. CONTROLLER

ADAPTEC

1515 16 bit Controller w. Kit oem / reg	69/85
1522A Fast SCSI Board, 3Mb/s / w. Kit	85/145
1542CF SCSI Board, 10Mb/s. / w. Kit	175/239
2742AT SCSI EISA w. Kit	365
2842AK SCSI VLB w. Kit	239
2940 SCSI PCI w. Kit oem / reg	239/279
2940W Wide-SCSI PCI Kit w. wide int cable	299
APA1460 Slim PCMCIA SCSI	195
ASW-EZ SCSI 3.1 for Dos & Windows	69
T348K Parallel to SCSI Adapter	119
T358K EPP Parallel to SCSI Adapter	155

BUSLOGIC

KT410A IDE Cache VLB	119
KT445C SCSI VLB w. Kit	199
KT542B SCSI-2 w. Kit	209
KT757C Fast SCSI-2 & Wide-SCSI EISA w. Kit	379
KT910A IDE Cache PCI w. Kit	169
KT946C SCSI PCI w. Kit (supports 8GB HD)	219

COREL

Corel SCSI Software v2.0	85

DTC

2278VL IDE w. I/O VLB, 32 bit	35

FUTURE DOMAIN (SCSI)

TMC-1660 for AT (HD only)	119
TMC-1660 SVP (SCSI Value Pack)	127
TMC-1680 for AT (4FD & HD) / SVP	129/139
TMC-3260 PCI / SVP	129/165

KOUWELL

KW-554N 2IDE/ 2FD	19
KW557A IDE/ 1.44/ 2S(FiFo)/ ECP/ 1G	29
KW558A VLB IDE/ 2.88/ 2S(FiFo)/ 1P1G/ ECP/ EPP	42
KW560C VLB EIDE/ FDC/ 2S 1P 1G	35
KW560D VLB EIDE/ 2.88/ 2S(FiFo)/ 1P/ ECP/ EPP	49
KW602B EIDE PCI	32

NEW MEDIA

PCMCIA Bustoaster SCSI	215
PCMCIA Bustoaster SCSI-2	219

PROMISE (drive cache)

DC-4030VL IDE VLB, cache up to 16MB	99
DC-5030 IDE PCI	129
EIDE 2300 Plus IDE/ 4HD/ 2S 1P/ 16550	59
EIDE MAX IDE ISA only	35

QLOGIC

Fast SCSI 16 bit (all SCSI CD Rom)	55
Fast SCSI EISA w. Kit	199
Fast SCSI VLB w. Kit	189
Fast SCSI PCMCIA	199
Fast SCSI PCI Kit / Wide-SCSI PCI Kit	249/299

VITEX

IDE w. 4FD/ 2S 1P/ 16550 chips	39
IDE w. 4FD/ 4S 2P 1G/ 2S16550/ VLB	89
Enhanced IDE/ 4HD/ 2FD/ 2S 1P 1G/ VLB	35
Enhanced IDE/ 4HD/ 2S 1P/ VLB/ 16550	49

WONDER SYSTEM

IDE w. 4FD/ 2.88/ Drivers Tape/ 1.0 Mbps	35
VL3208 EIDE w. 4HD/ 2FD/ 16550/ VLB	55

OTHERS

ACCULOGIC IDE PCI Controller	49
ASUS SC200 SCSI-2 PCI (w. NCR chips)	85
IDE w. I/O (2S 1P) / IDE w. I/O VLB	19.50/29
IDE w. I/O (2S 1P) PCI	49

4. CPU & MATH CO

CPU :

AMD

386 DX-40	59
486-DX2-66 / DX2-80	135/109
486-DX4-100	119

INTEL

386 DX-33 / DX-40	39/39
486 DX-33	109
486 DX2-50 / DX2-66	135/139
486 DX4-100	179
586-60Mhz / 66MHz Pentium	199/219
586-75MHz / 586-90MHz Pentium	219/319
586-100MHz / 586-120MHz Pentium	419/619
586-133MHz Pentium	769

Math Co Processor :

ULSI

83D87 - 40	35

OTHERS

Cooling Fan for 486 CPU	6.95
Cooling Fan for 586 Pentium CPU	9.95

5. DIGITIZER

SUMMASKETCH

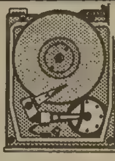
III 12 x 12, 4 or 16 button	*(249)269
III 12 x 18, 4 or 16 button	495
- 2 button stylus for III	39
FX 12 x 12, w. 3-button Pressure Stylus	375

WACOM

Art Pad II 4x5, w. Erasing Ultra Pen for PC / MAC	145/149
Art Pad II (WD2-0405S) w. Fractal Dabbler	169
Art Z II 6x8, w. Erasing Ultra Pen for PC / MAC	315/319
Art Z II 12x12, w. Erasing Ultra Pen for PC / MAC	455/459
UD-520 4-button Cursor	109
UP-201 Pressure Stylus	49.95

6. DRIVE

SALE!



FLOPPY DRIVES :

TEAC

1.2MB 5.25"	45
1.44MB 3.5" / w. frame / Black	35/39/45
Dual - 1.2MB & 1.44MB	85

HARD DRIVES :

CONNER

CFS-425A 420MB 14ms IDE 1" ht	145
CFS-850A 850MB 15ms 64k IDE 1" ht	195
CFP-1060S 1.08GB 10ms 256k SCSI-2	369
CFS-1275A 1.2GB 12ms 64k IDE 1" ht	279
CFP-2105S 2.1GB 8.5ms 256k Fast-SCSI-2	709

FUJITSU (2 yr. warranty)

M2684TAU 540MB 12ms 256k IDE 1" ht	169
M2684SAU 540MB 12ms 256k SCSI 1" ht	205
M1606SAU 1GB 9ms 512k SCSI	***(375)**

HP

3724S 1.2GB 9.5ms SCSI-2	419
3725S 2.14GB 8.9ms SCSI-2	819

KINGSTON

PCMCIA 260MB IDE	545

MAXTOR

MXT-7425AV 420MB 12ms 32k IDE	149
MXT-7540AV 540MB 14ms 64k IDE	***(165)**
MXT-7850A 850MB 12ms 32k IDE	195
MXT-71260A 1,2GB 12ms 256k IDE	269

MICROPOLIS

MC-4221 2.1GB 9ms 512k 1/2 ht	895
MC-1936 3.0GB 11ms 256k SCSI full ht	895
MC-1936AV 3.0GB Audio Visual	1145
MC-3243 4GB 8.5ms 512k 3.5" ht	1399

NEW MEDIA

PCMCIA 105MB IDE / PCMCIA 170MB IDE.	419/449
PCMCIA 260MB IDE	589

QUANTUM

LPS-270S 270MB 12ms 128k SCSI	149
LT-540A 540MB 11ms 128k IDE	185
LT-540S 540MB 11ms 128k SCSI-2	*(189)
FB-1080A 1GB 12ms 128k IDE	265
FB-1080S 1GB 12ms 128k SCSI-3	359
TR-840A 840MB 14ms 128k IDE	199
TR-840S 840MB 14ms 128k SCSI	279
Atlas XP-32150 2GB 8ms 1MB SCSI-2	***(815)**

SAMSUNG

PLS-30854A 850MB 11ms 256k IDE	209
PLS-31274A 1.27GB 11ms 256k IDE	275

SEAGATE (5 yr. warranty for 1GB+)

ST-3660A 540MB 14ms 128k IDE 1"ht.	***(165)**
ST-31220A 1.08GB 12ms 256k IDE	265
ST-31230N 1.05GB 9ms 512k SCSI-2	465
ST-32430N 2.14GB 9ms 512k Fast SCSI	849
ST-31430W 2.14GB 9ms 512k Wide-SCSI	949
ST-32550N 2.14GB 8ms 512k SCSI-2	975
ST-12550W 2.14GB Fast-wide SCSI	1225
ST-15230N 4.3GB 9ms 512k SCSI	1099
ST-410800N 9.0GB 11.5ms 1M SCSI	2745

TOSHIBA

PCMCIA 262MB IDE	485

WESTERN DIGITAL (3 yr. warranty)

WD-2540 540MB 12ms 128k IDE	175
WD-6350 635MB 11ms 128k IDE	189
WD-2850 850MB 10ms 128k IDE	215
WD-31200 1.2GB 11ms 128k IDE	***(299)**
WD-31600 1.6GB 10ms 128k IDE	469

REMOVABLE DRIVES :

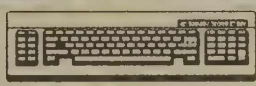
SYQUEST (MITAC)

105MB 3.5" w. cart., IDE host adapter	279
105MB 3.5" w. cart., printer port for PC, Ext.	369
105MB 3.5" w. cart., SCSI for Mac, Ext	389
200MB 3.5" w. cart., SCSI Ext	479
270MB 3.5" w. cartridge, IDE w. Kit, Int	435
270MB 3.5" Bare Drive, SCSI, Int oem	349
270MB 3.5" w. cartridge, SCSI, Ext.	479
270MB 3.5" w. cart., printer port for PC, Ext.	479
105MB Cartridge / 270MB Cartridge	55/65
Syquest 270MB 3.5" w. cart., IDE w. Kit, Int	465
Syquest 270MB 3.5" w. cart., SCSI Ext	539

OTHERS

Impression CardDrive (2 slot PCMCIA)	185
Mounting Frame for 3.5" Hard / Floppy Drive	5/5
Removable Case for 3.5" HD IDE / SCSI	35/38

7. KEYBOARD



FOCUS

FK2001 101 Click	42
FK9000 129 Key Programmable	53

MICROSOFT

Natural Keyboard	89.95

NORTHGATE OMNI (5 yr. warranty)

101NI / 102	*(65)/*(65)
Ultra T / Ultra F	*(79)/89

SIIG (5 yr. warranty)

Minitouch 81-key Click	45
Supertouch 101 Click	53
Wavetouch 101 Soft	39
Wintouch (for Win'95)	39
W104 (for Win'95)	29

OTHERS

Ancer 101 Key (black)	42
BTC 5100 Key Mini (80-key)	35
Keytronic 101	*(29)35
Maxi 101 / Maxi 124	35/53
Mitsumi 101	29
Spill -resistant 101 Key	19.50
Unikey Natural Ergonomic Keyboard	42

8. I/O CARD

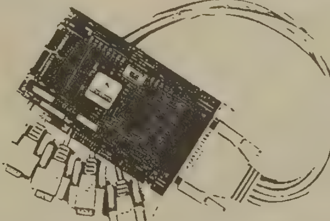
KOUWELL

KW524H 2S/1P/1G	22
KW524J 2S/2P	24
KW524L 2S(FiFo)/ 1P/ 1G	37
KW508-1 Single Parallel Port	12

QUICKPATH

HIGH SPEED COMMUNICATION CARDS for Remote LAN Access

FLEXPORT 42 .... $99
- 4 16550 Serial Ports
- 2 Bi-Directional Parallel Ports
- Extended IRQ selection (3,4,5,7,9,10,11,12,14,15)
- 8 Selectable Address
- Extra Parallel Port Address Setting
- Windows, OS/2, Unix, Novell compatible



PORT-FOLIO 550E $125
- 13 Ports
- 4 16550 Serial Ports
- 4 Floppy Ports
- 2 Bi-Directional Parallel Ports
- 2 IDE Ports, 1 Game Port
- Extended IRQ Selection (3,4,5,7,9,10,11,12,14,15)
- Windows, OS/2, Unix, Novell compatible

Most Suitable for BBS Internet Users

*(price) .... **SALE PRICE** while supplies last

oem .... $ bundled with hardware only

SIIG (5 yr. warranty)

(2S 1P) w. 16550 chips	45

STB 4-COM

4 Serial, 16 bit, 16550, support Com 1-8, IRQ (2,3,4,5,10,11,12,15)	109

VITEX

AT I/O (2S 2P) w. 16550 chips	39

9. MEMORY

DRAM

256k x 4 - 70ns	5.50

SIMM

1 x 9 - 60ns / 70ns / 80ns (1MB)	41/40/39
4 x 9 - 60ns / 70ns (4MB)	165/159
16 x 9 - 70ns (16MB)	609
256k x 9 - 70ns	12
1 x 36 - 60ns / 70ns (4MB , 72 pin)	165/159
2 x 36 - 60ns / 70ns (8MB , 72 pin)	329/325
4 x 36 - 60ns / 70ns (16MB, 72 pin)	595/589
8 x 36 - 60ns (32MB, 72 pin)	1199

SIPP

1MB x 9 - 70ns (3 chips)	42

OTHERS

Memory for Computer, Laptop, Notebook, & Laser Printer upgrades	***call***

10. MODEM & FAX

SALE!

BOCA

14.4 Fax Int / Ext	***(75/95)**
14.4 Online Express Int / Ext	***(65/79)**
14.4 Pocket Fax	169
14.4 Voice Fax Modem Int / Ext	***(99/109)**
14.4 VSP Sound Express Fax Modem	***(155)**
28.8 Fax Modem v.34 Int / Ext	***(155/199)**

COMPUTER PERIPHERAL

14.4 Fax Modem Voice	89

GVC (Maxtech)

14.4 Fax Int / Ext	*(49)/89
14.4 Fax Modem Voice Int	69
PCMCIA 9624 Fax	99

HAYES

Accura 144 + Fax Int / Ext	***(87/105)**
Accura 28.8/14.4 v.34 Fax Modem Ext	209
ESP Communication : Single / Dual port	85/125
Optima 288 v.34 Fax Int / Ext	369/419

MEGAHERTZ

PCMCIA XJ1144 Fax (MNP5)	179
PCMCIA XJ2144 Fax (MNP10)	209
PCMCIA CC3288 Fax / XJ2288 Fax	335/315

MICROCOM

Deskporte 28.8S V.34 Fax Ext	189
Deskporte EP 28.8 V.34 Ext	229

PRACTICAL PERIPHERALS

PM144FX144 Int / Mini Tower Ext	***(79/99)**
28.8 v.34 Fax, 230K DTE Int / Ext	269/285
28.8 v.34 Ext (PC288LCD)	359
28.8 v.34 Int (PM288) / Mini Tower	***(195/215)**

PURE DATA

Satisfaxion 400 144/144 Fax Int	299
Satisfaxion 400e 144/96 Fax Ext	335

SHIVA

Net modem/E Ethernet BNC/TP	1475

US ROBOTICS

Courier v.34 28.8/14.4 Fax Int / Ext	395/425
Sportster 144/144 Fax MNP5 Int / Ext	99/115
Sportster 144/144 for Mac Ext	149
Sportster v.34 28.8/14.4 Fax Int / Ext	189/199
Sportster v.34 28.8/14.4 Fax for MAC	259
Sportster PCMCIA Fax 288	335
Sportster Si 144 Fax Int	***(65)**
Sportster Vi 144 Fax w. Voice Mail Int / Ext	115/129
Sportster Vi 288 Fax w. Personal Voice Mail Int	215

ZOOM (7 yr. warranty)

144/144 Fax Modem & Voice Int / Ext	***(105/159)**
28.8 V.34 14.4 Fax Int / Ext	156/199

ZY-XEL

U1496E 16.8 Voice 14.4 Fax, LED Ext	299

11. MONITOR

SALE!

EYE Q

SM1411 14" Flat Mono Amber	85
SM1418 14" SVGA Mono	105

GVC

M1566L 1280 x 1024 .28 NI	335

HITACHI

CM1587M 15" Flat 1280 x 1024 .28 NI	369
CM2096 20" 1600 x 1200 .31	1265

IIYAMA (Idek)

MF-8115 15" 1280 x 1024 .28	415
MF-8617A 17" 1280 x 1024 .26 NI	***(749)**
MF-8621 21" 1600 x 1200 .26	2235
MT-9121 21" 1600 x 1200 .30	1895

KFC

CT1428A 14" 1024 x 768 .28 NI	249
CA1507 15" Flat 1280 x 1024 .28 NI LED	375
CA1508 15" Flat 1280 x 1024 .28 NI LCD	389
CA1718 17" Flat 1280 x 1024 .26	745

MAG (auto switch power)

DX15FE 15" 1280 x 1024 .28 NI (no LED)	*(359)375
DX17F 17" 1280 x 1024 .26 NI (no LED)	689
MXP17F 17" Flat 1600 x 1280 .26 NI	***(849)**

MITAC (3 yr. warranty)

M1564+ 15" 1280 x 1024 .28 NI	325
L1766PD 17" 1280 x 1024 .28 NI	625

NANAO

F2.15 15" Flat 1024 x 768 .28 NI	545
F2.17 17" 1280 x 1024 .28 NI	875
F2.17EX 17" 1600 x 1200 .26 NI	995
T2.17 17" 1280 x 1024 .25 NI	1285
T2.17TS 17" 1280 x 1024 .25, Diamondtron	1029
T2.20 20" 1600 x 1280 .30 NI	1955

NEC

XV14 14" 1024 x 768 .28	335
XE15 15" 1024 x 768 .28	579
XV15 15" 1024 x 768 .28	459
XE17 17" 1024 x 768 .28 NI	985
XP17 17" 1280 x 1024 .28 NI	1069
XV17 17" 1024 x 768 .28 NI	***(749)**
6FGp 21" 1280 x 1024 NI (re-furbished)	1699
XE21 21" 1280 x 1024 .28 NI	1799
XP21 21" 1600 x 1200 .28 NI	2159

NOKIA

449E 15" 1280 x 1024 .28 NI	*(425)499
447L 17" 1024 x 768 .28 NI	689
447X-258 17" 1600 x 1280 .25 NI	975
445X 21" 1600 x 1280 .26	2095
445X 21" 1600 x 1280 .26 TCO	2255

OPTIQUEST

1000S 14" 1024 x 768 .28 NI	***(249)**
1500D 14" 1280 x 1024 .28 NI	349
2000DC 15" 1280 x 1024 .27 NI	399
4000TC 17" 1280 x 1024 .25 Trinitron NI	799

PANASONIC

C1791E 17" 1280 x 1024 .28 NI	*(689)749

PROTON

PM1561A 15" 1280 x 1024 w. speakers built-in	345

SAMSUNG (SyncMaster)

15GLi 15" 1280 x 1024 .28 NI, at 60Hz	429
17GLi 17" 1280 x 1024 .28 NI, at 60Hz	739
17GLSi 17" 1600 x 1200 .26 NI, at 68Hz	869
20GLS 20" 1600 x 1200 .28 NI, at 66Hz	1319

SHAMROCK

SRC-1405 14" 1024 x 768 .28 NI, Digital	249
SRC-1502 15" 1280 x 1024 .28 NI, Digital	335
SRC-1703L 17" 1280 x 1024 .28 NI, Digital	599
SRC-1702L 17" 1600 x 1280 .26 NI, BNC	699

SONY

1425 14" 1024 x 768 .25	***(299)**
15SF 15" 1280 x 1024 .25 NI	489
17SF 17" 1280 x 1024 .25	***(859)**
20SE 20" 1280 x 1024 .30 NI	1885

STANDARD TECHNOLOGIES

428-VESA 14" 1280 x 1024 .28 NI	249

TATUNG

20" Analog 1280 x 1024 .31	755

VIEWMAGIC

10" SVGA Mono Paper White 1024 x 768	125

VIEWSONIC

14ES 14" 1024 x 768 .28 NI	289
15ES 15" 1024 x 768 .28 NI, MacII	365
15G 15" Flat 1280 x 1024 .28 NI	429
15GA 15" 1280 x 1024 .28 NI, built-in speakers	509
17GA 17" 1280 x 1024 .27 NI, plug & play	829
17GS 17" 1280 x 1024 .27 NI	759
17PS 17" 1600 x 1280 .25 NI, plug & play, TCO	879
20PS 20" 1600 x 1280 .28 NI, MacII	1429
21PS 21" 1600 x 1280 .26 NI, MacII	1649

12. MOTHERBOARD

AIR (w/o cpu)

486MI : 486-DX2-66 256k, 3VLB, built-in AT I/O	169
486EI : 486-DX2-66 / DX4-100 256k, EISA, 3VLB	329

ASUS (w/o cpu)

486-DX2-66 256k PCI, built-in IDE+SCSI I/O	269
P55TP4XE 586-133 256k PCI, w. Burst SRAM	355
586-90 / 100 256k PCI EISA, dual processor	625

IBM (Opal)

486SLC-66 VLB 64k w. CPU & Math Proc	165

INTEL (w/o cpu)

586-90 / 100 256k ZP PCI, Tritition, built-in IDE I/O	269
Endeavor 586-90/ 133MHz PCI, Triton, built-in IDE I/O w. Pipeline Burst SRAM & Vibra Sound	449

LYNX (USA made, w/o cpu)

486-33 / DX2-66 256k VLB Green PC, 30-pin	135
486-DX2-66 / DX4-100 256k 3VLB	145
486-DX4-100 256k PCI VLB, 72-pin	159

M-TECH

486-DX2-66 256k VESA, 30-pin & 72-pin	135
486-DX4-100 256k PCI, 30-pin & 72-pin	159

MICRONICS (w/o cpu)

BCP 386-33 64k, 4MB max	79
486-33 / DX2-66 256k VLB	169
JX3WB 486-DX2-66 256k VLB w. write-back cache	239
486-33 / DX2-66 256k EISA-3 / w. VLB	285/299
M54PI 586-90 w. IDE I/O (Neptune)	325
M54Hi 586-100 256k, Triton, w. Burst SRAM	515

SUPER (w/o cpu)

P54CT 586-90 / 133 256k PCI VLB	239
P54Ci 586-90 / 133 256k PCI, built-in IDE	239
P55CMA 586-180MHz 256k PCI, Triton, built-in IDE I/O	299
P55CMS 586-90 / 180 PCI w. Burst SRAM 256k	345
- w. Burst SRAM 512k	469

TIGER V

586-90MHz 256k PCI	209

13. MOUSE & JOYSTICK

AGILER

AGM-800E Serial 400 dpi	12.50
ATB-610 Serial Trackball	21.50
Master Plus 400	16.50

ANCER (black)

3-button	19

KENSINGTON

Expert Bus 4.0	115
Expert Serial & Trackball 4.0	95
Thinking Mouse (serial & PS/2)	79

LOGITECH

Cordless II	85
First Serial	31
Fotoman Plus Camera for PC & PS/2	549
Mouseman Bus / PG15 Bus oem	64/45
Mouseman Serial	45
Serial Combo PC & PS/2 oem / reg	32/45
Trackman II / Trackman Live Cordless	75/125
Wingman Standard / Extreme	29.95/47

MICROSOFT

Bus 2.0 400dpi w. Bus Card oem / reg	65/79
Home Serial 1.0	39.95
PS/2 2.0 (round connector) oem / reg	35/59
Serial 2.0 400dpi oem : gray	29

MOUSE SYSTEMS

Altes Mouse	9.95
Cobra (joystick)	9.95
Mousel Serial w. Pad	19
Omni Mouse (new version)	26
PC Mouse III (3-button optical)	49.50
PC Trackball II	39.95
ProAgio (5-button serial)	45
Serial Bus Card (9IRQs)	29

JOYSTICK :

THRUSTMASTER

ACM Gamecard	29.95
F-16 FLCS	135
Flight Control System MK II	69
- w. Falcon / w. US Navy Fighters	79/89
Flight Control System Pro	119
Formula T1 / w. Indy Car	125/139
Rudder Control	118
Weapon Control MKII	109
UPROM	29.95
XL Action	35

OTHERS

Color Mickey Mouse Pad	5.99
Star Trek Mouse Pad / Star Wars Pad	7.99/7.99
Walt Disney Mouse Pad	4.99
Winnie the Pooh Mouse Pad	5.49

14. NETWORK

3COM

3C250 FMS 100BaseTX Fast 12 Port HUB	*(1595)
3C509B Etherlink III Coax oem / reg	*(79/109)
- 5 Pack oem / reg	*(389/466)
3C509B Etherlink III TPO oem /reg	*(69/95))
- 5 Pack oem / reg	*(335/404)
3C509B Etherlink III TP+AUI oem / reg	*(78/108)
- 5 Pack oem / reg	*(385/449)
3C509B Etherlink III Combo oem / reg.	*(94/119)
- 5 Pack oem / reg	465/525
3C579 Etherlink III EISA Coax / TP	218/219
3C589 PCMCIA TP / Combo	*(152/194)
3C590 PCI TPO oem / reg	*(109)/135
- 5-Pack oem / reg	515/565
3C590 PCI Combo	*(165)
3C595-TX PCI 10/100 TP	225
3C16170 Link Builder (12TP)	335
3C16180 Link Builder (9TP + BNC)	185

ADDTRON

HUB: UTP8/L (8TP +BNC + AUI)	*(125)
HUB: UTP16/L (16TP + BNC + AUI)	249
Pocket Adapter BNC	*(99)
Transceivers: AUI-BNC / AUI-TP	*(33/33)

ALLIED TELESIS (CentreCOM)

Transceivers: MX10 (AUI - BNC)	*(31)
Transceivers: 210T (AUI - TP)	*(31)

ARTISOFT (Lantastic)

Corstream Server 5-user (8340)	*(499)
- upgrade to dedicated server	59
HUB: 8 Port (8TP + BNC)	189
HUB: 12 Port (12TP + BNC)	225
Lantastic Z (2 stations)	89
Lantastic 6.0 Starter Kit Coax 2-user	235
Lantastic 6.0 Add On NR-SI 2000C	115
Lantastic 6.0 Add On NR-SI 2000T	*(119)
Lantastic 6.0 for single / 5 / 10-user	79/339/599
- upgrade for single / 5 / 10-user.	39/99/149
Lantastic for OS/2	99
Lantastic for TCP/IP single / 5-user	199/785
Lantastic PowerSuite :	
- 1 / 5 / 10 / 25-user	149/599/1075/2295
- conversion for 1 / 5 / 10-user	89/345/595
NR-SI 2000C Coax / 5 pk / 10 pk	*(74/338/617)
NR-SI 2000T TP / 5 pk / 10 pk	*(75/339/619)
NR-SI 2000A Combo	*(89)

ASANTE (for Mac & PC)

10T HUB 8 Port (8TP + 1BNC)	*(145)
10T HUB 12 Port (12TP + 1BNC + 1AUI)	*(295)
FriendlyNet with BNC / TP Adapter	59/55

ASCEND

ISDN Pipeline 50 Single	779

BOCA

LAN Card : ISA TP / ISA Combo	55/65
LAN Card : VLB TP	69
PCI 32 bit Ethernet Combo	*(79)

CASTELLE

JetPress MIO TP (network printer server)	389
JetPress XIO Coax + TP	429
LANPress (print server connects up to 4 printers)	
- Ethernet Thick/Thin Coax (1P 3S)	475
- Ethernet 10BaseT (1P 3S)	475
- Ethernet BNC & 10BaseT (2S 2P)	435

CHEYENNE

Arcserve for WinNT (NT-ASIO)	*(495)

CNet (Advanced Network)

200E+ Coax / 600E+ TP	*(35/34)
650E+ Jumperless Combo	*(39)
3270 Emulation for PC / for PS/2	175/195
4020ERP 2 Port Repeater Coax	*(179)
5250 Emulation for PC / for PS/2	199/235
8000TPC HUB: 12 Port Stackable	299
8800TPC HUB: (8TP + BNC)	*(99)
8816TPC HUB: (16TP + BNC)	*(225)
8900TPC 12 Port SMNP Slave HUB	465
8910TPC 12 Port SMNP Master HUB	775
Personal Netware 2-user Coax / TP	109/*(99)
Personal Netware single-user Combo	*(59)

COGENT

EM100 PCI Fast-TX, 32 bit bus mastering	219
EM400 PCI Quarlet Fast (4UTP)	995
EM525 Ethernet 16 Combo	*(69)
EM595TP Ethernet PCMCIA UTP	189
EM932 EISA 32 bit Coax / TP	224/225
EM960 32 PCI Full Duplex TP / Combo	*(119/129)
EM964TP 32 PCI 4-Port Full Duplex TP	469

DANPEX

ArcNet & Token Ring products	call
5 Port Mini HUB (6TP)	89
1616i SNMP Intelligent 16port Hub	635
1616M SNMP Manageable 16port Hub	395
6200P2 PCMCIA BNC+TP	115
7000P3 32bit VLB Combo	*(75)
9400P3 32bit PCI Combo	*(79)
ET-510 UTP to AUI Translator	107
ET-590 UTP to BNC Translator	109
FE-1000TX ISA 100BaseTX	*(145)
FE-1400TX PCI 100BaseTX	*(149)
PrintMate PM-NW (for Netware)	269
PrintMate PM-TCP (for SUN, UNIX)	279

HP (Hewlett Packard)

Advanced Stack 10BaseT 8 Port	*(245)
Advanced Stack 12 Port HUB	599
- with SMNP	895
Advanced Stack 24 Port HUB	999
- with SMNP	1329
Jet Direct J2550A TP	315
Jet Direct J2552A Combo	375
Jet DirectEX J2382B for HP5P	349

IBM

Ether 16 Coax / TP / Combo	69/69/79
ISDN Wave Runner ISA	495

INTEL

EtherExpress 32 Flash EISA Combo	219
EtherExpress PRO/100 PILA 8465 PCI TP	*(195)
EtherExpress Pro 8/16 bit cards :	
- PCLA 8200 BNC + AUI + TP	125
- PCLA 8200 5 pack	*(525)
- PCLA 8210 BNC + TP oem / reg	*(79/104)
- PCLA 8210 5 pack	*(449)
- PCLA 8220 TP oem / reg	*(74/99)
- PCLA 8220 5 pack	*(439)
- PCLA 8205 Flash BNC+AUI+TP	135
- PCLA 8205 5 pack	*(539)
- PCLA 8215 Flash BNC + TP / 5 pk	125/499
- PCLA 8225 Flash TP / 5 pk	119/469
LAN Project 1.5 (virus protection)	685
LAN Sight Support 4.0	345
LAN Spool s/w 386 NLM v3.5A	425
MCLA 8120 MCA TP	175
Netport II Thin & Thick	395
Netport II 10BT	399

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*(price) .... SALE PRICE
while supplies last

oem .... $ bundled with hardware onlv

Netport Express XL	465
NetSatisfaxtion 3.01 for Novell 25-user	755

LANPRO

2000RC16 bit BNC / 2000JT 16 bit TP	*(35/34)
2000RAL 16 bit Combo	*(39)
EP3020A Pocket Combo	109
HUB : 8 Port (8TP + BNC)	*(125)
HUB : 16 Port (17TP + BNC + AUI)	*(229)
Personal Netware Coax Starter Kit	139

MEGAHERTZ

EM1144T PCMCIA Ethernet TP & 14.4 Modem	355
XJ10BT PCMCIA Ethernet TP	*(149)
XJ10BC PCMCIA Ethernet Combo	*(175)

MICRODYNE

NE2000+ Coax / 5 pack	*(79/349)
NE2000+ TP / 5 pack	*(75/329)
NE2000+ Combo / 5 pack	*(85/399)
NE3200 EISA Coax / TP	445/445
NE3210 EISA 32 bit Combo	*(170)
NE5500 32 bit PCI	*(119)
Synchronous .35 WAN Adapter / .35+	450/869

NATIONAL SEMICONDUCTOR

InfoMover NE2000+ Coax / 5 pack	*(49/339)
InfoMover NE2000+ TP / 5 pack	*(65/299)
InfoMover NE2000+ Combo / 5 pack	89/*(399)
InfoMover NE4100 PCMCIA Coax / TP	*(168/169)

NETWORTH

100 Base TX 8 Port HUB	1375

NOVELL

Dos 7 (w. Personal Netware) oem / reg	45/55
Lan Workplace 5.0 single / 10-user	295/1295
Netware 3.12	
- 5 / 10 / 25-user oem	*(495/999/1495)
- 5 / 10 / 25-user reg	*(595/1365/2065)
Netware 4.1	
- 5 / 10 / 25-user oem	*(525/1035/1545)
- 5 / 10 / 25-user reg	*(625/1395/2095)
- 50 / 100-user oem	1795/2595
- 50 / 100 / 250-user reg	3195/4395/7495
Netware Connect 2 Ports / 8 / 32	415/1445/3895
Netware NFS v1.2C	3150
NFS Client for Lan Workplace	205
Personal Netware oem / reg	39/75
Unixware Personal Edition v2.01 - CD version	319
Unixware SDK v2.0 - CD version	105

PALINDROME

Network Archivist NLM 3.1A	*(595)

SMC

8013 Plus Elite 16 Combo / 6 pack	135/775
Elite Ultra 16 Coax / 6-Pack	105/449
Elite Ultra 16 TP / 6-Pack	106/439
Elite Ultra 16 Combo / 6-Pack	115/499
Elite Ultra 32 EISA Combo	215
Ether EZ Coax oem / reg	*(75)/109
Ether EZ TP oem / reg	*(65/99)
Ether EZ Combo oem / reg	*(79)/115
Etherpower PCI : TP / Combo	*(157.50/189)
Etherpower PCI 10/100	*(199)
Netware Boot ROM for Ethernet v1.3	29.50
Tiger HUB: 100TX 16 Port	2895
Tiger HUB: 3212TC (12TP + BNC + AUI)	369
Tiger Switch XE 24 Port	6895

XIRCOM

ISDN Basic Rate Adapter	*(359)
PCMCIA CE2-10BT TP	*(149)
PCMCIA CE2-10BC Combo	*(199)
PE3-10B2 Pocket Adapter Coax	*(255)
PE3-10BT Pocket Adapter TP	*(259)
PE3-10BC Pocket Adapter Combo	*(265)

CABLES & ACCESSORIES	***call***

15. NOTEBOOK

SAMSUNG

SP758C Pentium 75MHz, 8MB RAM, 10.4", DSTN, 520MB HDD, Type II & III PCMCIA	2635
SP788T Pentium 75MHz, 8MB RAM, TFT, 10.4" 810MB HDD, Type II & III PCMCIA	3135
SP918T Pentium 90MHz, 8MB RAM, 10.4", TFT, 1.3GB HDD, Type II & III PCMCIA	3475

OTHERS

7600 Pentium 586-90Mhzm 16k, 8MB RAM, 340MB HDD, 1.44MB FD :	
- w. Active Color 75Mhz / 90Mhz	2675/2775
- w. Dual Scan Color 75Mhz / 90Mhz	2175/2275
- w. VLB Docking Station	455
9200 9.5/10.4" Viewable Screen size, 4MB (expandable to 36), 128k, VLB, removable HD, built-in speaker & microphone :	
- 486-DX2-66, 340MB (DSTN)	1695
- 486-DX2-66, 340MB (TFT)	2155
- 486-DX4-100, 340MB (DSTN)	1725
- 486-DX4-100, 340MB (TFT)	2255

16. POWER SUPPLY

AMERICAN POWER CONVERSION

APC-600 Smart-UPS (386, 486 FS)	339
APC-900 Smart-UPS (386, 486, FS & WS)	495
APC-280 Back-UPS (200W)	108
APC-400 Back-UPS (300W)	159
APC-450 Back-UPS (325W)	199
APC-600 Back-UPS (425W)	269
APC-900 Back-UPS (650W)	375
Back-UPS Pro APC-280	155
Back-UPS Pro APC-420	225
Back-UPS Pro APC-650	295
SU-450 Smart-UPS (486, 586 WS)	289
SU-700 Smart-UPS (486, 586 FS)	359
SU-1000 Smart-UPS (486, 586, FS & WS)	515
SU-1400 Smart-UPS (multiple FS & WS)	639
SU-2200 Smart-UPS	1150
PowerChute Plus :	
- for Novell	65
- for OS/2, Lan Server, 3 Com	75
- for Unix / Xenix	99
- for Windows NT	69

PC POWER COOLING

CPUcool for 486 or 586-90/100	19.95
Silencer Slim 205	99
Standard 230	
- for Desktop / Full Tower	85/85
Silencer 270	
- for Slim (baby or mid tower)	135
- for Full Tower	159
Turbo Cool 300	
- for Slim (baby or mid tower)	139
- for Desktop / Full Tower	169/165
Turbo Cool 400	
- for Slim / Full Tower	*(199/199)
Turbo Cool 450 for Full Tower (3.3 volt)	325
Twinpower 900 (redundant)	925

TRIPP LITE

Isobar / Isotel	call

17. PRINTER / PLOTTER

BROTHER

HJ-400 Desktop Ink Jet for PC or Mac	*(249)
HL-630 Laser 6ppm	399
HL-641 6ppm, 1MB RAM	449
HL-645	459
HL655M for PC & MAC, 2MB RAM	599

CANON

BJ-200EX Bubble Jet, 360x720dpi	239
BJC-600E Ink Jet, Color, Par. 720dpi	479
BJC-4000 Ink Jet, Color, 360x720dpi	359

CITIZEN

GSX-220 24 pin	179
GSX-230 Fonts & Quiet	219
GSX-240 Scalable Fonts & Quiet	285
GSX-345 24 pin, 132 column	365
Projet II Ink Jet	269

DEC (Digital Equipment)

DecLaser 5100 w. 6MB	1125
DecWriter 500i / color upgrade	285/46

EPSON

LQ-870	455
Stylus Color Inkjet 720dpi	539

HP (Hewlett Packard w. toner)

Color Laser Jet	5535
Desk Jet 600 / 660C / 850C	315/439/529
Desk Jet 1200C PC, Mac	979
Desk Jet 1200C Postscript PC, Mac	1595
Desk Jet 1600C PC, Mac	1349
Desk Jet 1600C Postscript PC, Mac	1949
Ink Jet Plotter Color C3190A	2395
Laser Jet 4+ / 4M+	1399/1899
Laser Jet 5P / 5MP	*(895)/1099
Laser Jet 4Si / 4SiMX	2875/3995
Laser Jet 4V / 4MV (B size)	1895/2695
Office Jet (printer-fax-copier) 3-in-1	699
Accessories :	
- Color Kit for 540	49
- Duplex C2061A for 4Si or 4SiMX	495
- Envelope Power Feeder 75 Sheet (HP4)	279
- Legal, Letter or A4 250 Sheet Tray (HP4)	99
- Legal, Letter or A4 500 Sheet Tray (HP4)	109
- Optional 500 Sheet legal Letter A4 (HP4)	279
- Postscript C2013A for 4Si	575
- Toner for II, III	84
- Toner for IIP, IIP+, IIIP	76
- Toner for 4 / 4L or 4P	109/69
- Toner for 4Si / 4V	135/149

LASER MASTER

Winjet 1200 (postscript for HP4)	*(549)
Winjet 1200+ (postscript for HP4+)	*(599)

MICROTEK

TrueLaser MTP-306 35 fonts, 6ppm, 2MB	*(599)

OKIDATA

ML184T 9 pin, Par	239
ML320 9 pin, Epson compatible	335
ML380 24 pin, Epson compatible	245
ML590 24-wire	439
OL400E Laser	*(375)
OL410E Laser 4ppm, 600ppi	*(499)
OL410E/PS Laser Postscript	*(775)

PACIFIC DATA

ProTracer II Ink Jet (CAD Plotter)	899
ProTracer II-GL2 w. HP-GL2 & 2MB	1259
Accessories :	
- HP-GAL Emulation Card	375
- Ink Cartridges	19.50
- Postscript Emulation Card	375
- Sheet Feeder I / II	135/115

PANASONIC

1150 9 pin, 55dBA	139
2023 24 pin, Quiet	185
2123 24 pin, 43.5dBA, Color capability	239
2130 Quiet Dot Matrix .... (after rebate, 169)	199
2135 Quiet Dot, Color .... (after rebate, 205)	255
3123 24 pin, Quiet, Scalable Fonts	259
3124 24 pin, Scalable Fonts, LCD	329
3626 24 pin, Quiet Wide-carriage	399
J250 Ink Jet, 300dpi, 128 nozzle printhead	*(259)
4430 Laser 5ppm, 1MB	665
4400 Led Page.............. *(after rebate, 299)	399
4440 Laser 10ppm	995
4455 Postscript 11ppm	1695
5400 Led Postscript 4ppm ..... (after rebate, 499)	599
KXP-6100 600dpi 6ppm	399
SP-100 Multi-function printer	769
Accessories for 4410, 4420, 4430. 4400 4440, 4450 4450I, 4455, 5400	***call***

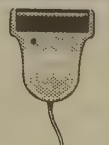
SEIKO

Smart Label Printer Plus / Pro	145/245
- Standard Label (2 rolls)	7.95

SUMMAJET (Plotter)

1324M Mono A - D Size	1990
1324C Color A - D Size	2250
1336M Mono A - F Size	2465
1336C Color A - F Size	2695
D Size Stand / E Size Stand	325/365

18. SCANNER



DELRINA

WinFax Pro Scanner	*(299)

HP (flatbed)

ScanJet IIIC Color & Gray Scale w. Kit	935
- Auto Document Feeder	475
- Transparency	635
ScanJet IIIP Gray Scale w. Kit	349

INFO

SF3GS Gray Scale 300 dpi w. OCR	*(199)
SF12C Color 24 bit 1200 dpi w. OCR	349
- w. Auto Document Feeder (SF6CD)	539

LOGITECH (hand)

Scanman Easy Touch w. OCR	169
Scanman 256 / w. Omni Page OCR	135/155
Scanman Color w. Omni Page OCR	*(195)
Scanman Power Page	399

MICROTEK (flatbed color)

Scan Maker II w. Photoshop L.E.	395
Scan Maker IIHR 600 dpi w. Photoshop & OCR	795
Scan Maker IIHR 600 dpi w. Picture Publisher	599
Scan Maker IISPX 300 x 600 dpi	875
Scan Maker III	2495

VISIONEER

PaperPort + OCR for Win	355

19. TAPE BACKUP

COLORADO

DJ-35C Jumbo 350 340MB Int	135
DJ-25C Jumbo 700 680MB Int	195
DJ-50C Jumbo 1400 1.3GB Int w. Controller	299
PT-10 PowerTape 1GB SCSI Int	599
PT-25 PowerTape 2GB 300Kb/s Int	965
PTE-25 PowerTape 2GB Ext SCSI	1095
Tracker 350MB (printer port)	279
- upgrade fr 250MB to 350MB	39.95
Tracker 680MB (printer port)	335

CONNER

CNR-4320RT 2GB Int w. 5.25" rail	785
CNR-4350XT 2GB Ext	985
Tape Stor w.cartridge 420MB Int / Ext	135/289
Tape Stor w.cartridge 850MB Int	199
Tape Stor 850MB w. cart. Ext (printer port)	349

EXABYTE

EXB-2501 1 - 2GB SCSI-2 Int / Ext	475/*(619)
FS1G (2501 + Control Kit) Int / Ext	675/*(799)
EXB-4200 4mm Dat. 2GB Int / Ext	799/975
EXB-8205XL 8mm Dat. 3.5 - 7GB Int / Ext	1275/1499
EXB-8505XL 8mm Dat. 7 - 14GB Int / Ext	1985/2275

HP (Hewlett Packard)

35470 4mm Dat. 2-4GB SCSI Int	725
35480 4mm Dat. 4-8GB SCSI Int	835
C1533 4mm Dat. 8-16GB SCSI Int	999
T1000 850MB	195
HP Mounting Frame to 5.25"	27

20. VGA CARD

ATI

Graphics Xpression 2MB PCI / VLB	209/209
Graphics Ultra Plus 2 DRAM w. mouse	199
Graphics Pro Turbo 2MB PCI / VLB	325/325
Graphics Pro Turbo 4MB PCI / VLB	459/459
Win Turbo 64 2MB PCI / VLB	275/275

DIAMOND

Stealth 32 2MB PCI	165
Stealth 64 2MB DRAM PCI / VLB	185/189
Stealth Video 64 2MB VRAM PCI / VLB	275/279
- 2MB upgrade	165
Stealth Video 64 4MB VRAM PCI / VLB	469/469
Viper Pro VRAM 2MB PCI / VLB	365/365

MATROX

IMP Plus 1600 x 1200, 2MB PCI	349
IMP Plus 220 2MB PCI	449
Millenium PCI 2MB / 4MB	349/479

MEDIA VISION

ProGraphics 1024 VL 256 Color 1MB	*(159)

NUMBER NINE

FX Motion 330 DRAM 2MB PCI	175
FX Motion 771 VRAM PCI 2MB oem / reg	269/289
FX Motion 771 VRAM PCI 4MB	439
GXe Level 12 VRAM 3MB ISA	299
GXe-64 Pro VRAM 4MB VLB	439
Imagine 128 4MB PCI	815
Imagine 128 1600 4MB PCI	1045

ORCHID

Fahrenheit 64 1MB PCI / VLB	139/139
Kelvin 64 Windows Accel. 1MB PCI / ISA	129/129
Kelvin 64 Windows Accelerator 1MB VLB	129
Kelvin 64 Windows Accel. 2MB PCI / VLB	179/179

SPIDER

Tarantula 64 2MB VRAM VLB / PCI	219/219
Tarantula 64 4MB VRAM VLB / PCI	335/335
Tarantula 64 MK II 4MB VRAM VLB / PCI	385/385

SOFTWARE

1. PC SOFTWARE

SALE!

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Acrobat Exchange	*(139)
Illustrator 4.0 for Win	425
Pagemaker 5.0 for Win	*(499)
Photoshop 3.0 for Win oem	295
Photoshop 3.0 for Win & NT	565
Premier 4.0 for Win - FD+CD	329

AUTODESK

AutoCAD Lite 2.0 - FD+CD	*(399)
Autosketch 2.0 for Win	135
Generic CADD 6.1	69

BORLAND

C++ 4.5 - CD for Dos, Win, Win32	325
- upgrade - CD	189
dBase V for Win / upgrade	*(296/125)
Delphi competitive upgrade	*(175)
Paradox 5.0 for Win / comp. upgrade	*(295)/119
Power Pak for Dos	99
Sidekick / Sidekick 2 for Win	29/45
Turbo C++ for Dos / 4.5 for Win - CD	92/79

COREL

CD Creator for Win	165
Corel Draw 4.0 - CD oem / reg	65/*(249)
Corel Draw 5.0 - FD+CD / CD	*(525/415)
- upgrade fr 3.0 to 5.0 - FD+CD	*(355)
- upgrade fr 3.0 to 5.0 - CD only	299
- upgrade fr 4.0 to 5.0 - FD+CD	*(199)215
- upgrade fr 4.0 to 5.0 - CD only	*(165)
Corel Flow	*(59.95)
Corel Ventura 4.2 - FD+CD	175
Corel Ventura 5.0 - FD+CD / CD only	*(365/299)
- upgrade - CD	85

IBM

OS/2 3.0 Warp - CD / FD	*(59)/76
OS/2 Connet / w. Windows	135/175
OS/2 Warp + Dos & Win - CD / FD	*(95)118
Voice Type Dictation for Win (w. ISA board)	699

INTUIT

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Quicken Financial Planner '95	38
Quicken 4.0 for Win - FD / CD	39.95/36
Quickbook 3.1 for Win (w. Quickpay)	95
QuickBook & QuickPay for Dos	99

LOTUS

1-2-3 5.0 for Win / upgrade	299/99
1-2-3 4.0 for Dos / upgrade	365/99
Ami Pro 3.1 for Win	*(99)
Approach 3.0 for Win / w. 1-2-3 upgrd	99/145
cc:Mail Desktop 2.1 for Win	69
cc:Mail Desktop 10-user License	359

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while supplies last

oem .... **$ bundled with hardware only**

cc:Mail Group Pack for Win w. Organizer	595
cc:Mail Lan System 10 License	*(545)
- Lan System Trade-up 10 License (router)	375
cc:Mail Mobile E-Mail 2.0 for Win	135
- upgrade	75
cc:Mail Router 5.1	*(79)
Freelance Graphic 2.01 for Win	335
- upgrade for Win / for Dos	99/99
Notes Starter Pack 3.0	850
Organizer 1.1	95
Smart Suite 3.0 - FD / CD oem	**495/*(149)**
- upgrade	*(249)

MICROGRAFX

ABC Flowcharter 4.0	315
Designer Tech. 4.1	455
Picture Publisher 5.0 for Win - CD	*(129)
Windows Draw 3.0	49

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Dos 6.22 / upgrade	42/49
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Excel 5.0 for Win oem / reg	134/*(285)
- competitive upgrade	119
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Fortran Powerstation / upgrade	339/195
Fortran Powerstation 32 / upgrade to NT	495/275
Fox Pro 2.6 Single Dos or Win	*(95)
Macro Assembler 6.11 (MASM)	155
Mail Server 3.5 for PC	445
Multimedia Viewer - CD	315
Office 4.2 for Win - FD / CD	*(439)/459
- competitive upgrade - FD	275
Office Professional 4.3 - FD	*(535)
- competitive upgrade - FD	*(345)
Office Prof. 4.3 + Bookshelf - CD	559
- upgrade + Bookshelf - CD	365
Office Standard for Windows '95	455
- upgrade - FD / CD	225/225
Office Professional + Bookshelf for Win '95	549
- upgrade - FD / CD	315/315
Power Point 4.0 / upgrade	*(299)/125
Profit for Win	129
Project 4.0 for Win / upgrade	***(399)/139**
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- competitive upgrade FD / CD	189/195
Visual C++ Standard 1.52 - CD	89
Visual C++ 2.0 for Windows NT (subsrcription)	469
- upgrade (get $50 rebate fr MS)	335
Visual C++ 2.0 for Win & NT (on-line doc.)	369
- upgrade (get $50 rebate fr MS)	239
Visual Fox Pro Standard 3.0 / upgrade	189/95
Windows 3.11 / upgrade	51/49.95
Windows '95 reg / oem	***(179)**
- oem version - FD / CD	109/104
- upgrade - FD / CD	***(89/89)**
Windows '95 Plus - FD / CD	***(44/44)**
Windows NT 3.51 Workstation - CD / FD	289/287
- upgrade fr v3.1 to v3.51	95
Windows NT Server 3.51	645
Windows NT Step-up fr 3.5 to 3.51 :	
- for server CD / FD	68/95
- for workstation CD / FD	19/45
Windows NT Server + 10 Client License	925
- License: single client / 20-client	35/499
Windows for Workgroups (reg. version)	135
- oem version in 3.5" FD	57
- Workgroups Add On 3.11 for Win	45
- Workgroups Add On 3.11 MS-DOS	52
Word for Win '95 upgrade	***(89.95)**
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- competitive upgrade	119
Works 3.0 for Win oem / reg	59/89

NOVELL (WORDPERFECT)

Perfect Office 3.0 for Win	399
Perfect Office Prof. 3.0 FD / CD oem	545/*(199)
- upgrade	289
Quattro Pro 6.0 for Win - CD	255
- upgrade / competitive trade-up	49/89.95
Wordperfect 5.2 for OS/2	*(99)
Wordperfect 6.0 for Dos (free upgrade)	*(259)
Wordperfect 6.1 for Win - FD / CD	***(225)/245**
- upgrade / trade-up	95/119
- educational version	79.99

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Cleansweep	***(28)**
Game Runner 2.0	39
DesqView/X 2.1	169
DesqView/X Network Manager (TCP/IP)	129
Internet Suite 1.0	69
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Qemm 7.5 / upgrade	59.95/36
Web Author 1.0	89
Web Server 1.0	109

SYMANTEC

ACT! 2.0 for Win	*(169)
C++ 7.0 for Win	189
Norton Anti-Virus '95	*(69.95)
- Trade up	29.95
Norton Anti-Virus 3.0 for Win & Dos	89
Norton Commander 4.0	69
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Norton Navigator '95	89.95
Norton Speed Drive (speeds Win, Dos, CD)	69
Norton Utilities '95 / upgrade	118/58
Norton Utilities 8.0 oem / reg	94/109
On Target for Win (project planning)	89
PC Anywhere 5.0 Remote & Host for Dos	***(115)**
- v2.0 for Win	***(117)**
Q & A for Win	159

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Adobe Illustrator	385
Adobe Pagemaker v5.08 / v6.0	*(549)/575
Adobe Photoshop for Power Mac	575
Claris File Maker Pro	95
Fractal Design Painter	315
FrameMaker 5.0 for Power Mac	569
Lotus CC Mail 2.2	69
Macromedia Fontographer	319
Macromedia Freehand for Mac & Power Mac	379
Macromedia Macro Model	179
Microsoft Excel 5.0	299
Microsoft Office 4.21	465
Microsoft Word 6.0	299
Netscape Navigator	38
Outlook PC File Exchange	75
Quark X'Press	619
Symantec Anti-Virus 4.0 (SAM)	69
Symantec Think C	189
Symantec Utilities 3.1	95
Turbo CAD 3D	159

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After Dark III - FD	29.95
- Complete After Dark - FD	39.95
By Design for Win	59
Caere: Omni Page Direct OCR 2.0	65
Caere: Omni Page Professional 6.0 for Win	455
– upgrade	139
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Caere: Wordscan Plus 4.0 / upgrade	389/139
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Cakewalk Professional 3.0 for Win	235
Canvas for Win / Trade-up	263/99
Carbon Copy 6.1 Guest & Host for Dos	105
Carbon Copy 2.5 for Win	*(115)
Check-It Pro vol.1 & vol.2	85
Check-It Pro Deluxe 2.0 for Dos	135
Claris File Maker Pro 2.1 for Win	115
- competitive upgrade	99
Claris Works for Win	*(49)69
DacEasy Accounting 5.0 for Dos	95
- v1.0 for Win	95
Delrina: Dilbert screen saver	28
Delrina: Echo Lake (family album)	45
Desk to Desk (office network for 2 - 255 user)	72
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Dilbert Screen Saver	26
Direct Access 5.1 for Dos	65
Disney Screen Saver	27.95
Disney: Aladdin Print Kit	*(19)
Disney: Beauty and the Beast Print Kit	*(19)
Disney: Dick Tracy Print Kit	*(19)
Disney: Mickey Print Kit	*(19)
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FastBack Plus 6.0 for Dos	119
Fax Works Pro 3.0	*(29.95)
Floor Plan Plus 3D competitive upgrade	47
Form Buster 2.1 - FD / Form Buster Plus - CD	35/49.95
Fractal Dabbler	55
Fractal Design Painter 3.1 for Win	315
Fractal Design Painter X2 for Win	88
FrameMaker 5.0 for Win / upgrade	559/195
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Globalink Assistant (language translation)	
- French / German / Italian / Spanish	46 each
Harvard Graphics 3.0 for Win w. Impact	275
- upgrade	95
Helix: Multimedia Cloaking	32
Helix: Netroom 3.0 1 / 4 / 10-user	59/119/255
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HIjaak Graphics 3.0 for Win	89
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Kai's Power Tools 2.0 for Win	115
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Kodak Photoedge CD	89
Kodak Shoebox Image for Win	*(95)
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Laplink 6.0 for Win / upgrade	129/85
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Mac-in-Dos for Win	89
Macromedia Director 4.0 for Win	795
Macromedia Freehand 5.0 for Win	375
Managing Your Money for Win	33.95
Math CAD 5.0 for Win	98
McAfee: Virus Scan 2.2	*(39.95)
- Virus Scan for Win	*(39.99)
Medical House Call (Applied Medical)	55
Netscape Navigator for Win (WWW)	36
One Write Plus Accounting & Payroll	49
Passport Encore 3.0	365
Peach Tree Accounting 3.0 for Win	115
Peach Tree Accounting 8.0 Complete	185
- Multi-user	279
Pocahontas Screen Saver (Disney)	19.95
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Power Translator Professional for Win	379
Procomm Plus 2.1 for Dos / Win	89/126
QA Plus v4.8 for Dos / v6.0 for Win	59/59
Quark X Press 3.3 for Win	599
Qualitas 386 Max 7.0	*(59)
Ram Doubler for Win	55
Remove-It for Win & Dos	*(19.99)35
SoftRam for Win'95	52
SpinRite 3.1	79
Stacker 4.0 / upgrade	95/55
StageSoft Accounting w. Payroll	159
- Lan version	*(255)
Tie Fighter (game)	*(35)45
Turbo CAD 2.0 for Win	75
Uninstaller 3.0 for Win (microhelp)	42
- for Network 2.0	*(75)
Visio 3.0 for Win	*(125)
Visio 4.0 for Win'95	135
Visio Technical 3.0	215
Watcom C++ v.10 16/32 bit	189
Wave 2.0 for Win (by Turtle Beach)	69
Win Check-It 2.0	46
Win Comm Pro	79
Windows '95 Advisor	35
Winfax Pro + Win Comm Pro	***(109)**
Winfax Pro 4.0 - FD / CD	79/89
- for Server / 10-user pack	119/599
WinGuard Plus+ (data security Win & Dos)	39
WinLynx	*(39)79
WinSense 2.0 (windows optimizer)	39
Winsleuth Gold Plus	59
WinZones (Comprehensive Time)	19.95
Wordstar 2.0 for Win	39
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XTree Gold 4.0 for Win	85

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- Animation Festival
- Airforce Commander
- Batik Design
- Best of Media Clips
- Blue Force
- Business Background
- Capital Hill
- Cardshop Plus
- Casino Collection
- Casino Master
- CD Game Pak
- CD Roms of CD Roms
- Chaos Continum
- Chess
- Crime City
- Cyberplasm Formula
- Digital Cinema
- Discoveries of the Deep
- Doom Fever
- Doom Shareware I
- Earth Invasion
- Family Doctor
- First Episode
- Font 125
- Four Footed Friends
- Full Bloom
- Great Naval Battles
- GT Personal Accounting
- Gus Goes To Cybertown
- Hilarious
- Intro to PC & Dos
- Jets
- Magic Death
- Magnaflux Runner
- Majestic Place
- Mega Race
- Money, Money, Money
- Mowgli's Brothers
- My First World Atlas
- New Media Guide 2
- No. 11 Downing St.
- People
- Printmaster Gold
- Props
- Puzzle Master & Crossward Creator
- Red Baron
- Ringworld
- Space Shuttle
- Sports
- Stellar 7
- Stradiwackius
- Swimsuits Parade
- The Best of 20th Century
- The Chessmaster 3000
- The First Emperor of China
- Time: Man of the Year
- Tony La Russa Baseball II
- Travel Companion
- Tropical Rainforest
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- World Literary Heritage
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- INCA II
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- PC Globe Pak
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- Ugly Duckling
- US Atlas
- Windows Collection
- Windows Shareware Gold

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- Educational Software '95
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- Super Hit Game Pack
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- Best Asian Hits (cooking)
- Better Windows Better Works
- Classic Clip : Horror / Scienfician
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- Doom Heaven 1 / 2
- Dos Made Gold
- Dos Made Platinum
- Dos Made Silver
- Game Room
- Harry's Story Disc & Coloring Book
- Kaseos Super Shareware
- Learning Windows 3.1
- Shareware Heaven
- Shareware to the Maxx
- Space Mission
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- Dinosaur Safari
- Doom Fever + Doom II Accessories
- Doom II Mania
- Encyclopedia of Games
- Exploring Ape Cave & Mt. St Helens
- Game Magic
- Hier to the Throne
- Hobbies & Leisure WIN
- Home & Business Partners
- Icon Collection
- Image Compendium
- Isle of Death
- Kids Games
- Learning Games WIN
- Learning Heaven
- Leisure Game Pack 81 Games
- Math Master
- Mother of All Clipart
- Mathematics Library + Algebra
- Magic of Alphabet
- Media Maestro (music)
- Mixed Up Mother Goose
- Multimedia Plus
- New Basic Cookbook
- Newsweek Interactive
- Photo CD: Romance / Texture
- Planet Fun
- Quantum Castle
- Thinking Games
- Top 201 Games
- Top 201 Learning Games
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Arthur's Teacher Trouble MPC & MAC	15
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Kid Pix Studio	*(39.95)
Living Book Sampler	3.99
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MYST MPC oem / reg	29/45
MYST MAC / Guide Book	48/16
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Learn to Speak French v4.0 PC, MAC	89
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Playing with Language MPC	17 ea
Power Japanese 2.0 WIN	139
Power Translator Deluxe (by Globalink)	115
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Doom Shareware (vol.1)	8
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Fractal Frenzy #1 / #2	17/17
Free BSD 2.05 / Boxed	17/*(19)
G N U for Unix & Sun	23
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Giga Games vol.2	16
Hobbes OS/2 (March'95)	14
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Kirk's Comm	22
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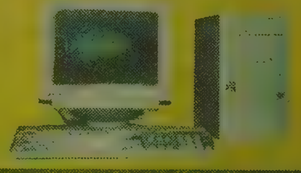

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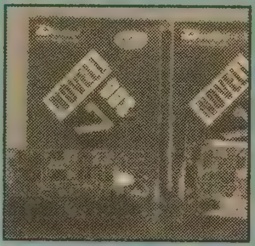

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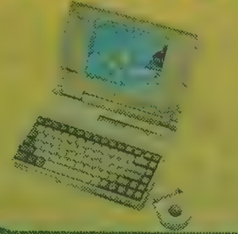

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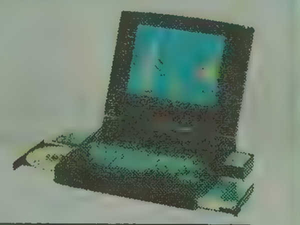

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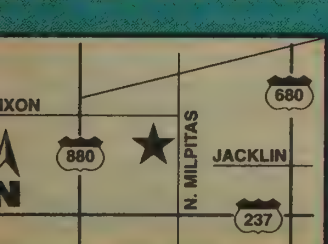

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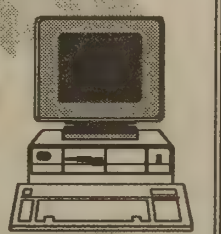

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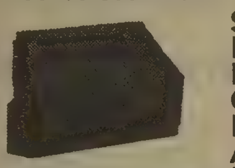

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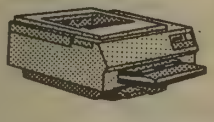

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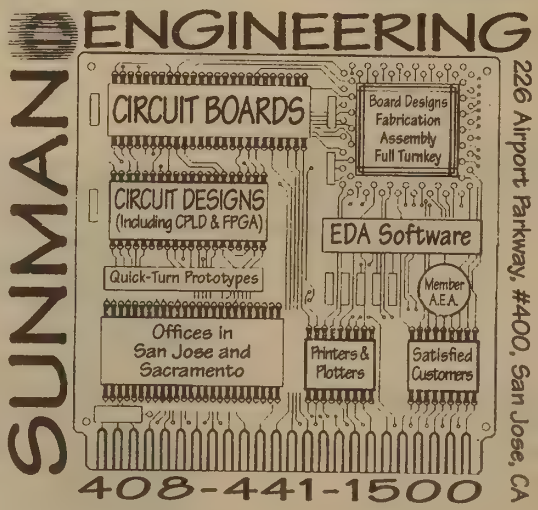

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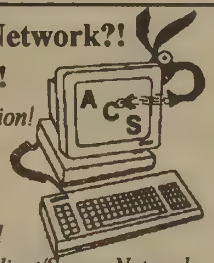

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OS/2 *continued from page 326...*

The failure of official hardware support for such basic functions in OS/2, particularly notebooks, has made it difficult for OS/2 to penetrate the PC market.

And that's a shame.

my experience with and knowledge of OS/2, but on several other technically knowledgeable persons, one vendor who ought to have known, and the official IBM position from two different sources. If there is a way to install Warp from a CD-ROM, why (a) is IBM unaware of it and (b) does IBM not seem interested in providing built-in, let alone after-the-fact, support of such a procedure as late as July 1995? Indeed, a message from a TEAMIBM support staff in one of the OS/2 forums stated that anyone who used the procedure would not be supported. (After some followup, it emerged that the person was simply not aware of such a procedure and did not want to commit to it, but was persuaded to refer users to the file.)

Second, the expectation that the average PC user will be able and willing to figure out, develop, modify, even find and apply such a procedure is simply misplaced. For each variation in the configuartion above, the user will have, in effect, to develop her/his own version of the procedure, without official support.

Unless such basic needs are built into OS/2 and *officially supported*, most users—particularly those who commit their business to OS/2—are unlikely to accept such solutions.

Third, note that the versions of the drivers required for both the Adaptec and QLogic cards need to be downloaded from their BBSes. As far as I know, they are not provided and documented with the products, and the vendors do not actively promote and support them.

It is the failure, at this stage of the game, of official hardware support for such basic functions in OS/2, particularly notebooks, that has made it difficult for OS/2 to penetrate the PC market. And that's a shame.

The worthwhile effort of sophisticated users to provide workarounds to such gaps notwithstanding, the average PC user may not wait so long for such solutions, may not come across them, may not have the skills, time, or patience to implement them, and they may not work in different circumstances. Indeed, the sheer need for such workarounds begs the question. ■

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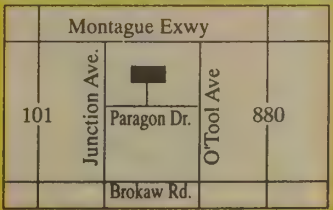

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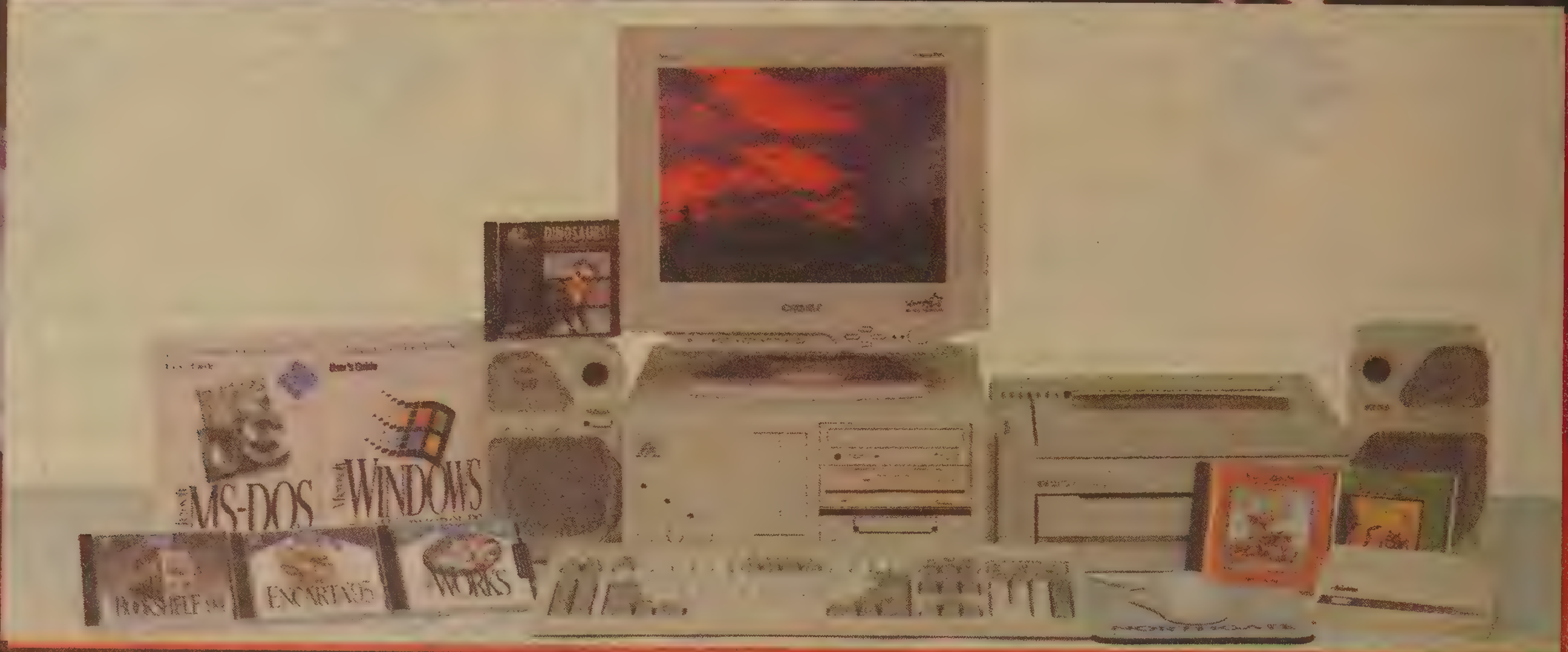

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486SLC2-66/64K VLB (IBM M/B)	768
486BL-75/256K VLB (IBM M/B)	788
486DX2-66/128K VLB	768
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15" Non-Interlaced Monitor	Add 80

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- 256KB External Cache
- **8MB RAM (Please call for upgrade)**
- **540MB Fast IDE Hard Drive**
- TEAC 1.44MB 3.5" Floppy Drive
- VLB or PCI IDE Controller with I/O
- VLB or PCI SVGA Card w/1MB
- **14" SVGA .28 Non-interlaced Monitor**
- Keytronics Keyboard
- Enhanced Case w/Power Supply
- Microsoft Compatible Mouse w/Pad
- Free DOS 6.x

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Asus 486DX2-80/256K VLB-PCI	1,058
Asus 486DX4-100/256K VLB-PCI	1,088
P5-60/256K VLB-PCI	1,098
P5-75/256K VLB-PCI	1,198
P5-90/256K VLB-PCI	1,288
P5-100/256K VLB-PCI	1,378
P5-120/256K PCI	1,578
P5-133/256K PCI	1,728

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850MB Hard Drive	Add 40
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15" Non-Interlaced Monitor	Add 80
28.8 Internal Fax Modem	Add 108

HI-TECH WINNER SYSTEMS

- Intel Pentium™ Processor with Fan
- 256KB External Cache
- **8MB RAM (Please call for upgrade)**
- **1.2GB Fast IDE Hard Drive**
- TEAC 1.44MB 3.5" Floppy Drive
- VLB or PCI IDE Controller with I/O
- Diamond Stealth 64 VLB or PCI with 1MB
- **15" SVGA .28 Color Monitor**
- Keytronics Keyboard
- Medium Tower Case w/Power Supply
- DOS 6.x and Microsoft Serial Mouse w/Pad

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P5-75/256K VLB-PCI	1,398
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17" Non-Interlaced Monitor	Add 270
28.8 Internal Fax Modem	Add 108

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- Intel Pentium™ Processor with Fan
- **8MB RAM (Please call for upgrade)**
- **1.2GB Fast IDE Hard Drive**
- TEAC 1.44MB 3.5" Floppy Drive
- PCI IDE Controller with I/O
- Diamond Stealth 64 PCI with 2MB
- **15" SVGA .28 Color Monitor**
- Keytronics Keyboard
- Medium Tower Case w/Power Supply
- DOS 6.x and Microsoft Serial Mouse w/Pad

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*Please call for Pipelined cache upgrade

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Microsoft Windows 3.x	Add $40
17" Non-Interlaced Monitor	Add 270
28.8 Internal Fax Modem	Add 108

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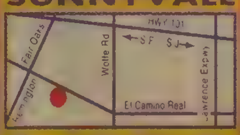

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486DX2-66/128K VLB	118
486DX2-80/128K VLB	124
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P5-60/256K PCI	248
P5-75/256K PCI	348
P5-90/256K PCI	438
P5-100/256K PCI	528
P5-120/256K PCI	738
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P5-133/256K PCI (ZAPPA TRITON)	918
P5-75/256K PCI (ENDEAVOR)**	498
P5-90/256K PCI (ENDEAVOR)**	588
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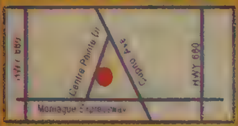

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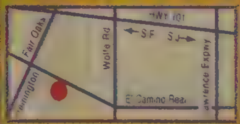

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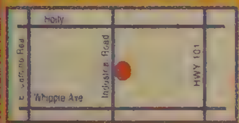

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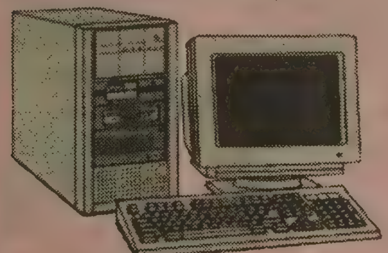

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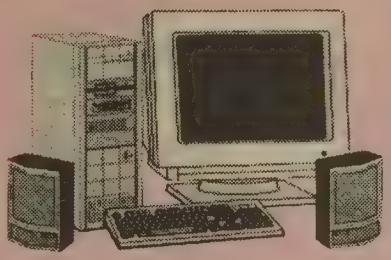

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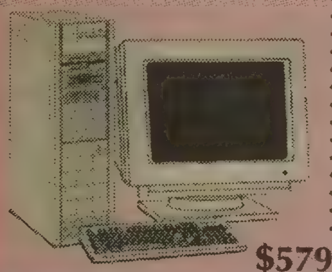

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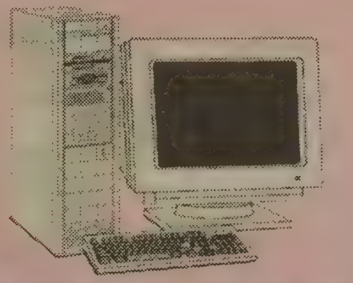

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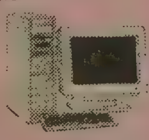

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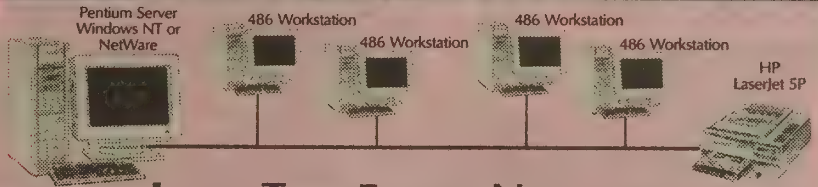

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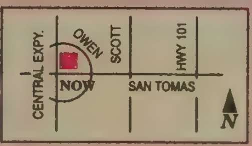

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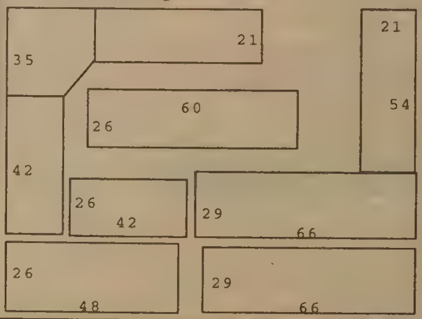

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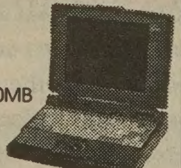

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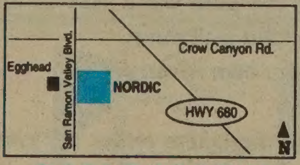

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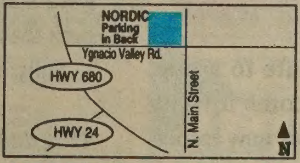

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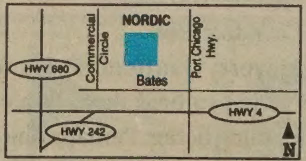

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Netscape's IPO: The Untold Story

Or

Inside The Columnist's Tortured Mind

As many of you *know, I have a penchant for writing short fiction on this page. Little plays seem to be my favorite vehicle. I start with a ludicrous parody and let it develop into something meaningful.*

People read these gems and say to themselves, "Gee, that Dvorak makes it look so easy." But in fact there is a lot of anguish involved. More than it's worth. Most of these attempts at satire run astray before they get far.

Here are three columns that ended so soon I could never use them. The fact is, writing takes on a life of its own, and there is nothing you can do about it.

The following attempts were made to explain—and somehow ridicule—the ludicrous Netscape public offering, which shot the stock to $75 a share the first day. I tried everything and nothing worked.

The Venture Capital Scenario

It was a meeting at Klaptrap, Pustule, Corndog, and Meyers—the top venture capital firm in Boston. The subject: The ridiculous valuation of Netscape—a company with virtually no sales and a good idea.

Klaptrap: Why didn't we think of this? Look at the killing these guys made on the public offering!

Pustule: I had the idea last year and nobody listened, or cared!

Corndog: Did not! I did!

Pustule: Did too!

Corndog: Not!

Meyers: Gentlemen. It's too late to argue. We've got to beat them. We can come up with something better. Perhaps one of our new associates can help. Gentlemen, meet Jennifer Abdul.

A tall, slender, exotic-looking woman with a jug of coffee ambles in. The men all stand. Klaptrap adjusts his tie. Corndog stands transfixed. She's a beauty.

Abdul: Someone asked me to get coffee. Would you gentlemen like some?

The foursome all nod their head and shove a cup towards her. She pours and they all toast and drink. Within seconds each grabs his throat.

Pustule: What's in this coffee???

Abdul: Poison, you idiots. Get your own damn coffee!

All four men drop dead.

Abdul: The company is mine, mine, mine!

Ok, that didn't go anywhere. Let's take it from the perspective of a software developer.

The scene is in Menlo Park. The company is Night Train Software, Internet Web page developers. Three guys and one female are sitting around a cheap table lamenting the Netscape deal.

Jim: That Netscape deal galls me. We could have done that!

Jerry: Yeah. We could have!

Don: We were ripped off. We had this idea, man. Those guys are nothing special.

Sally: Maybe if we worked harder instead of sitting around gabbing all night long.

Jim: Yeah, maybe. [*Grabs a piece of pizza*]

Don: Sally, can you get us some coffee?

Sally: [*pause*] Sure!

Sally leaves the room and returns with a large coffee pot that is clearly boiling hot. Don turns around just in time to get a face full of boiling water as Sally swings around like Bruce Lee kicking him square in the face. As the other two guys stand up she pulls out a Mac-11 and peppers the room killing all three.

Sally: Get your own damn coffee!

This doesn't go anywhere either. My characters are just too uptight. Let's try it from the perspective of a PR firm.

It's the offices of Windbag and Elder. The top Silicon Valley PR firm. Janice Windbag and Jerry Elder are meeting with associates Kelli Blue and Kim Peoples.

Windbag: What is wrong with us? Why can't we land a client like Netscape? Do you realize their PR firm got stock at a dollar a share!

Elder: It's unbelievable.

Kelli: Yeah!

Kim: Yeah!

Windbag: We have to find a way to make up for this terrible loss. What to do? What to do?

Kelli: I have an idea!

Windbag: What?

Kelli: If we painted our walls a nice light peach and put peppermint oil near the entrance we'd change our luck and people like Netscape would come to us. We wouldn't have to do anything.

Kim: I've heard that works. We also need more flowers.

Windbag: We'll study it. Jerry, will you be a dear and get us some coffee, this meeting looks like it's going all night.

Elder leaves the room and comes back with a pot of coffee and pours everyone a glass. Windbag winces when she tastes it.

Windbag: This coffee is insipid! Weak. Crappy. You make the worst coffee.

Elder: I thought it was the right mixture.

Windbag: Kim, be a dear and bring us some good coffee!

Kim: Gladly!

Kim gives Elder a look of superiority and leaves. A few minutes later she returns with a stunningly delicious pot of coffee.

Windbag: Ah! Excellent. Jerry, you should learn from Kim.

Elder: Maybe you should get your own damn coffee.

The three women are shocked at his insolence. Windbag tosses the coffee in his face.

Windbag: You're fired, you bastard!

Sigh. Maybe this isn't about Netscape after all. ■

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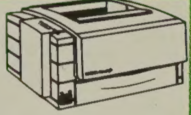

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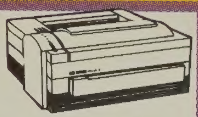

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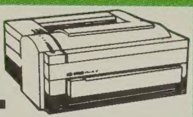

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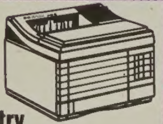

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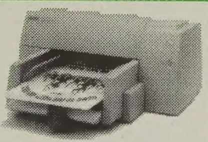

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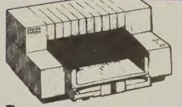

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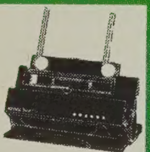

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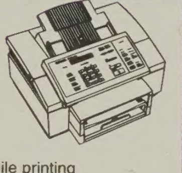

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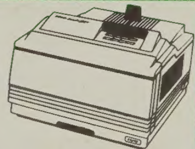

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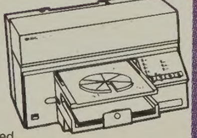

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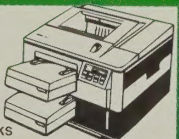

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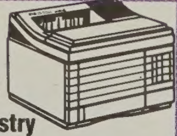

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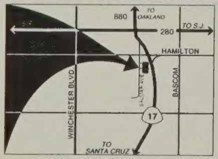

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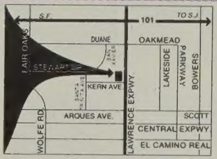

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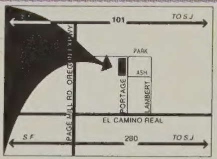

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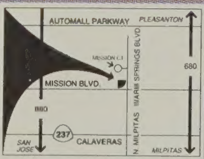

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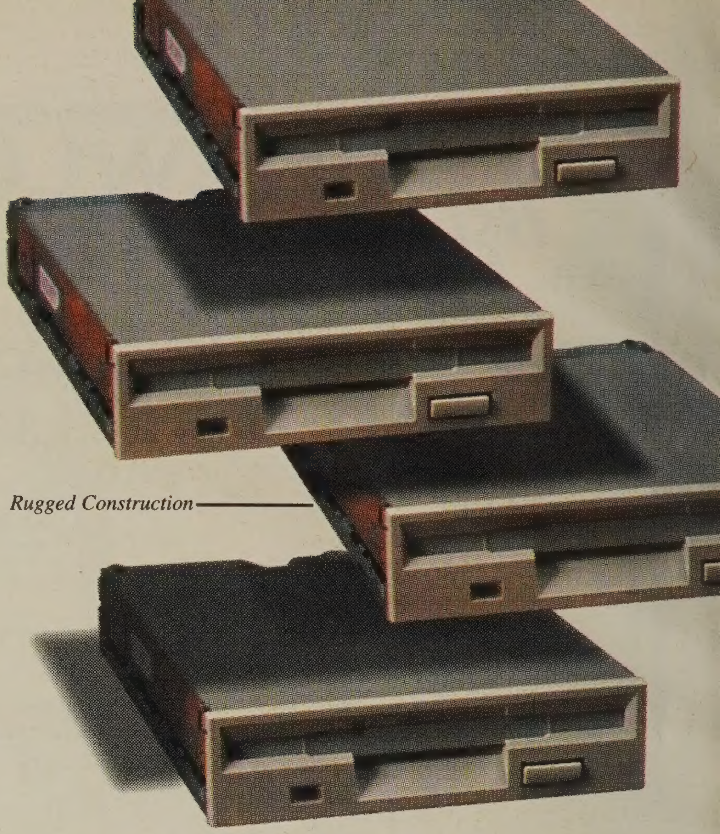

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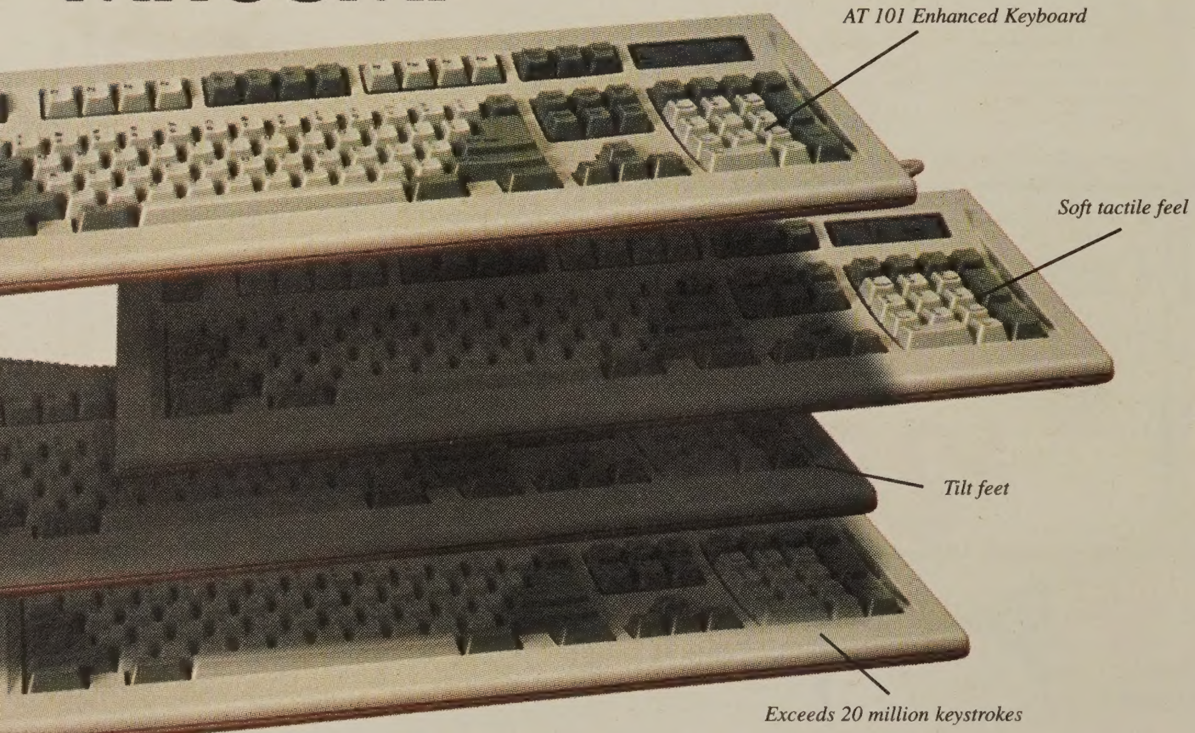

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